CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, October 19, 1911.

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RAILWAYS.

(*Denotes that this work is advertised in Engineering News.)

✚Maine.—Maine Central R. R.—The Maine Central R. R. has awarded the contract for the building of six miles of the new road on the Somerset branch to D. M. SUSI.

✚Massachusetts.—Hampden R. R. (Boston & Maine System).—Contracts have been awarded for the construction of this 15-mile railway to R. D. GILLETT, Westfield, and the WORONOCO CONSTRUCTION CO. This will form a connecting link by which the North Station in Boston can be reached in approximately the same distance as by the present line to the South Station in Boston.

New York.—The Public Service Commission for that part of the state outside Greater New York has selected 21 cases of grade crossing elimination proposed which provide for the elimination of 30 crossings. The estimated cost of this work is $1,200,000, of which the state will pay one quarter or $300,000, the Legislature having appropriated $350,000 for this work. It is proposed to eliminate the crossings at Van Woert St. and North Pearl St., in Albany on the line of the New York Central & Hudson River R. R. Plans have been prepared for the elimination of grade crossings in Buffalo at the following streets: Breckenridge, Delevan, Potomac, Bird, Forest, Dearborn, Amherst, Austin and Tonawanda, which are crossed by the Niagara Falls branch of the same road.

Pennsylvania.—Delaware, Lackawanna & Western R. R.—A plan to eliminate grade crossings in the vicinity of Normandy Park near Morristown, is under consideration. The tracks between New Milford and Clark's Summit will be straightened. G. J. Ray, Hoboken, N. J., is Ch. Engr.

✚North Carolina.—Durham & South Carolina R. R.—A contract has been awarded to JOHN T. McKINNEY, Lynchburg, Va., for the construction of twelve miles of the line between Durham and Bonsall.

South Carolina.—Greenville-Augusta R. R.—Announcement has been made in Greenville that the new Greenville-Augusta R. R. is an assured fact. An inspection trip has been made by the officials, a short while ago.

✚Kentucky.—Louisville & Nashville R. R.—T. J. ASHER, of Wasioto, has been awarded the contract by the Louisville & Nashville R. R. for the construction of the six-mile extension from Harlan up Clover Fork to Ages Creek. This railroad will penetrate one of the best coal fields in the south. B. M. Starks, Louisville, is Gen. Mgr.

Minnesota.—Minneapolis & St. Louis R. R.—This railroad has decided to build an extension from Liola, S. Dak., to the Canadian border. The line will run north, taking in Bismarck. W. G. Bierd, Minneapolis, is Gen. Mgr.

Kansas.—Atchison, Topeka & Santa Fe Ry.—Surveys are being made along the proposed route between Dodge City and Colmar, N. Mex. C. A. Morse, Topeka, Kan., is Ch. Engr. Noted Aug. 31.

North Dakota.—Northern Pacific R. R.—Plans have been made by this railroad to extend its lines to Heusler. The new line is already completed as far as Sanger and work will be started from Sanger to Hensler.

Arkansas.—Portland & Southeastern R. R.—Preliminary arrangements have been made for the construction of an extension from Portland, Ark., to Lake Providence, La., thence in a southwesterly direction to the Vicksburg, Shreveport & Pacific R. R. C. O. Byrd, St. Louis, connected with A. R. Byrd & Sons, is representing the company.

Texas. The San Benito & Rio Grande R. R.—A contract has recently been closed, for an extension of its main line to Mission and Monte Cristo. The company is now considering an extension into the coal fields of Zapatra County, about 175 miles from San Benito. Surveys are being made.

✚Washington.—The Highland Park-Lake Burien Ry.—A contract has been awarded to DIBBLE-HAWTHORNE CO., Bank of Commerce Bldg., Tacoma, at $150,000 for the construction of a railway from Oxbow to Lake Burien, about seven miles. Reitz, Storey & Duffy, Seattle, are the Engrs.

British Columbia.—Canadian Northern Ry.—During a recent visit to the Okanagan Valley, Sir William Mackenzie, Pres. of the Canadian Northern Ry., bought the Coteau water-power and a charter for building an electric railway through the fruit-growing belt on both sides of Okanagan Lake. The Coteau is capable, it is said, of developing 7,000 HP., a volume sufficient to operate the proposed railway. If built it will prove a feeder to the steam road which the company proposes to build into the Okanagan from Kamloops.

British Columbia.—Canadian Pacific Ry.—In connection with the probable electrification of a portion of its lines in the mountains, the Canadian Pacific Ry. has acquired through its Land Commissioner J. S. Dennis a water-power on the Adams River, which flows into South Thompson River near the west end of Shuswap Lake. The Adams River flows from Adams Lake, and engineers have reported that it is capable of developing 100,000 HP. at two different points between the lake and its confluence with the South Thompson River. It is in a heavily timbered country, where extensive lumbering operations are now being carried on.

ELECTRIC RAILWAYS.

(✚Denotes a contract awarded.)

Manchester, N. H.—Application for a franchise to extend its tracks in Manchester has been asked by the Manchester St. Ry. Co. J. Brodie Smith is Gen. Mgr.

Salem, Mass.—A franchise for the construction of a line in Salem has been granted by the Board of Aldermen to the Boston & Eastern Ry. Co.

Boston, Mass.—The location of the Boston & Eastern Electric Ry. to run from Postoffice Square, Boston, through East Boston, through tunnel under the harbor has been fixed. There are to be four stations in East Boston.

Springfield, Mass.—A franchise has been asked of the City Council by the Berkshire St. Ry. Co. for the purpose of connecting their Pittsfield and Berkshire lines at the south side of the Park in Springfield.

Buffalo, N. Y.—The Creston, Winterset & Des Moines R. R. Co. has been incorporated here to build a line from Creston to Des Moines, about 75 miles. Electricity will be used as a motive power.

Rochester, N. Y.—An extension to meet the Northern Wayne Electric Light & Power Co.'s line at a point a few miles east of here, will be constructed by the Rochester Ry. & Light Co. B. E. Tilton, Rochester, is Ch. Engr.

Schenectady, N. Y.—The Schenectady St. Ry. Co. has applied to the Public Service Commission for permission to extend its lines in the Fifth Ward.

Butler, Pa.—The Pittsburgh, Butler & Northern Ry. Co. is contemplating extending its tracks to Grove City. This is a part of the contemplated improvements, which includes a line to Buffalo, N. Y. A group of Eastern capitalists are financing the line and Theodore F. Bentel is the representative.

Coraopolis, Pa.—The Coraopolis & Sewickley Ry. Co. has recently been incorporated and has made application for a franchise to build a railway connecting Coraopolis, Moon and Sewickley. S. L. Tone is one of the incorporators.

Norfolk, Va.—Announcement has been made that the Virginia Passenger & Power Co. will make improvements to the local system, involving about $1,000,000, including the erection of new steel car barns, $125,000; new rolling stock, $50,000 and about $200,000 for improvements to tracks and the erection of new terminals at Ocean View and Willoughby Bend.

Richmond, Va.—See item under Light, Heat and Power.

Weston, W. Va.—Application for a franchise has been made by the Fairmount & Clarksburg Traction Co. J. P. Wigginton, Fairmont, W. Va., is Ch. Engr.

North Dayton, Ohio.—Application for a franchise for the extension of its lines has been made to the City Council by the Peoples Ry. Co. J. A. McMahon, Dayton, Ohio, is Pres.

Evansville, Ind.—The Illinois Central R. R. tracks will soon be electrified by the Evansville Rys. Co. between Evansville and Henderson.

Indianapolis, Ind.—The Indianapolis, Chicago & Meridian Ry. Co. will soon award the contract for the construction of its proposed railway to connect Gary, Hammond and Warsaw with this city. M. J. Moreland is Secy.

Vincennes, Ind.—A company to build a railway to the factory district in South Vincennes will be organized shortly by the Board of Trade.

Battle Creek, Mich.—The Michigan-Indiana Traction Co. has been incorporated to construct a line from Coldwater to Battle Creek, through Athens and Union City. P. M. Dunn, of Chicago, and Walter Powers, of Battle Creek, are interested.

Bessemer, Mich.—F. Sullivan, of Ironwood, is interested in the project of the Ironwood & Bessemer Ry. & Light Co., which will soon commence the construction of a 27-mile railway to connect Miller Falls, Ashland, Ironwood and Bessemer.

✚Aurora, Ill.—The contract for grading the new electric line between Yorkeville and Morris has been awarded to H. D. HALLET.

Averyville, Ill.—A franchise has been asked of the City Council by the Peoria Northern Ry. for the purpose of constructing a line connecting this city with other cities along the route to Peoria. H. E. Chubbuck, Peoria, is Pres.

Chicago, Ill.—Charles Pullman, I. A. Isaacson and L. S. Watts are the incorporators of a new company known as the Oak Hill Street Ry. Co. with a capital of $20,000. The purpose of this company is to build lines in the suburbs of Chicago.

Wausaukee, Wis.—A 14-mile railway will be constructed by the recently organized Dunbar & Wausaukee Ry. Co., from Wausaukee to Girard Junction, with a 12-mile extension to Dunbar. J. W. Wells, Menominee, Mich., is an incorporator.

Minneapolis, Minn.—A franchise has been asked by the Twin City Rapid Transit Co. for the extension of its lines in Minneapolis. W. G. Heild is Gen. Mgr.

Mexico, Mo.—The North Missouri Central Ry. Co., it is reported, has been reorganized for the construction of a road between Jefferson City and Columbia by P. M. Johnson, of St. Elmo.

Greenville, Tex.—J. F. Nichols, who is interested in an interurban electric railway from Greenville to Clarksville, via Cooper, Paris and Deport, reports that the people along the route are giving their active support to the project. The proposed line will be about 75 miles long and will traverse a thickly populated part of the State.

Mission, Tex.—It is reported that Samuel Robertson, of the San Benito Interurban Ry. Co., will build an interurban railway from Monte Cristo to this city.

Dallas, Tex.—It is announced by J. F. Strickland, Pres. of the Southern Traction Co., which is arranging to construct an interurban electric railway between Dallas and Waco, that the right-of-way has been secured from this city to the proposed terminus via Waxahachie and Hillsboro.

Denver, Colo.—A franchise has been granted to the Denver City Tramways Co., which allows the extending of its tracks along the Colorado Boulevard.

Twin Falls, Idaho.—A franchise has been granted by the Council to the Twin Falls Ry. Co. for constructing a line through the city.

Bingham City, Utah.—It is stated that Judge Watson and his associates have received a franchise from the City Council for the purpose of building an electric railway through the Bear River Valley.

✚Seattle, Wash.—The contract for the construction of a railway line from Seattle to Lake Burien has been awarded to DIBBLE-HAWTHORNE & CO., Bank of Commerce Bldg., Tacoma.

Seattle, Wash.—R. H. Thomson, City Engr., has been instructed by the Board of Public Works to prepare plans for the Seattle-Renton municipal electric railway, an enterprise to cost about $800,000.

Mt. Vernon, Wash.—Work will soon be started on the line to this city by the Bellingham & Skagit Ry. Co.

Lakeport, Cal.—The Clear Lake R. R. Co. has completed surveys for its proposed line from Lakeport to Hopeland.

Los Angeles, Cal.—Plans for the construction of a 4-track line between Santa Monica and Los Angeles, are being prepared by the Pacific Electric Ry. Co. George E. Pillsbury, Los Angeles, is Ch. Engr.

Richmond, Cal.—An electric railway will be constructed from Richmond to Winehaven under the control of the Castro Point & Terminal Ry. Co.

San Diego, Cal.—The San Diego Southern Ry. is contemplating rebuilding its electric division between San Diego and National City.

Pasadena, Cal.—J. W. Goodwin has applied to the City Council for a franchise for the construction of a railway line on East Washington St., between Lake Ave. and the city limits.

Trinidad, Cal.—Contracts for the rebuilding of about 19 miles of track will shortly be let by the Trinidad Electric Transmission Ry. & Gas Co.

St. John, N. B.—The Aroostook Valley R. R. Co. has received permission from the government to construct a railway along the St. John River from St. John to St. Leonards. A. R. Gould, Presque Isle, Me., is Gen. Mgr.

LIGHT AND POWER PLANTS.

(*Denotes that this work is advertised in Engineering News.)

Keene, N. H.—Permission has been asked by the Keene Gas & Electric Co. to build a high-tension transmission line between the plant owned by the Connecticut River Power Co., Hinsdale, and its own plant in Keene.

✚Hope, R. I.—A contract has been awarded to the NARRAGANSETT ELECTRIC LIGHTING CO., Providence, for the installation of a street lighting system.

Amsterdam, N. Y.—The Public Service Commission has authorized the Hudson River Electric Light & Power Co., of Amsterdam, to build an electric light and power transmission line and distributing system into the towns of Mohawk and Florida and the villages of Akin, Tribes Hill and Fort Hunter.

***Binghamton, N. Y.**—Bids will be received by S. W. Murray, Secy., Bd. of Contract and Supply, until 4 p. m., Oct. 25, for the construction of an electric conduit system and installation of boulevard lighting poles on Court St. Further information may be obtained from J. A. Giles, City Engr.

Cortland, N. Y.—Bids will be received by Dr. Andrew S. Draper, Comr. of Education, State Normal College, Albany, N. Y., until Oct. 24, for fixtures and wiring to be installed in the State Normal School at Cortland. F. B. Ware, Albany, is State Arch.

Lestershire, N. Y.—The installation of an ornamental lighting system on Main St. is under consideration.

Nelliston, N. Y.—The Mohawk Hydroelectric Co., Ephratah, N. Y., has recently leased the plant from the Ft. Plain Gas & Electric Light, Heat & Power Co. and has been authorized by the Public Service Commission to issue $56,000 of bonds for the purpose of making improvements and building transmission lines.

Rochester, N. Y.—Bids will be received until Oct. 25 by T. E. McGarr, Secy. State Comn. in Lunacy, Albany, for rewiring the old buildings at Rochester State Hospital.

Rochester, N. Y.—E. W. Edwards & Son will build a power-house in connection with their department store and restaurant on Main St. East. Crandall & Strobell are the Engrs.

New York, N. Y.—Bids will be received until Oct. 25 by T. E. McGarr, Secy., State Comn. in Lunacy, Albany, for a new engine and generator to be installed in the Manhattan State Hospital, Ward's Island, N. Y. Franklin B. Ware is State Archt., Albany.

✚Overbrook (Verona post-office), **N. J.**—The Building Committee of Essex County Board of Freeholders, Essex County Court House, Newark, N. J., has awarded a contract to the WATSON FLAGG ENGINEERING CO., 27 Thomas St., New York, N. Y., for street lighting in Overbrook.

✚Etna, Pa.—A contract has been awarded WALKER & CURLEY for the construction of a power-house, 34 × 85 ft., and 22 ft. high.

✚Washington, D. C.—A contract has been awarded to the WESTINGHOUSE ELECTRIC & MFG. CO., for two 75-KW., direct-current, engine type generators to be installed in the McKinley Manual Training School, at Washington.

✚Roanoke, Va.—Roanoke Traction & Lighting Co. has awarded a contract for one ATB-8-2500-KW. condensing turbine to the GENERAL ELECTRIC CO.

Richmond, Va.—The Virginia Ry. & Power Co. has authorized an expenditure of $1,100,000 for improvements and extensions to its system of which $700,000 will be used to build a power-house at the foot of Twelfth St. and to extend its transmission lines. The power-house will be 150 × 120 ft., of concrete or brick. Eight 600-HP. boilers, 9,000-KW. turbine, condenser, switchboard, transformers, rotaries, coal and ash-handling equipment and two stacks 250 × 12 ft. The remaining $400,000 will be used for relaying rails. William Northrop is Pres.

Follansbee, W. Va.—The Steubenville & East Liverpool Ry. & Light Co. will install a street lighting system and it is stated that work will be begun in the near future.

Sumter, S. C.—Edward L. Rieha, Baltimore, Md., and associates, will install machinery estimated to cost $28,000 at the proposed gas plant.

Baxley, Ga.—The erection of an electric light plant is under consideration.

Wooster, Ohio.—Bids will be received until Oct. 27 by Charles E. Thorne, Dir. Ohio Agriculture Experiment Station, Wooster, for the construction of an addition to the power-house at the Ohio Agriculture Experiment Station. Plans and specifications may be seen at the office of the Director.

Indianapolis, Ind.—Bids will be received by John E. Cleland, Business Dir. School Bd., until 7.30 p. m., Oct. 20, for the erection and completion of a blast furnace heating and ventilating system, and a plumbing, sewage drainage and gas pipe system in School No. 29, State and Lexington Aves.

Edwardsville, (Georgetown post-office), **Ind.**—The Edwardsville Gas, Light & Power Co., has incorporated to build, establish and equip a plant to furnish gas for light and power purposes. The offices are in Evansville.

Gibson City, Ill.—The Gibson City Electric Light & Power Co., is considering a plan to extend its transmission line into Saybrook, Ill., where a franchise has been secured.

Champaign, Ill.—Bids will be received by the City Council until Nov. 4 for lighting the streets of the city with electricity, gas or gasoline for a period of 10 years. N. M. Woodward is City Clk.

Pana, Ill.—A new lighting system is contemplated. The Commercial Club is interested.

Madison, Wis.—Bids will be received until Oct. 24 by the Capitol Commission of Wisconsin for completing the heating and ventilating plant in the south wing and the southeast and southwest corner pavilions, including steam mains in the east and west wings of the Wisconsin State Capitol now building at Madison, Wis. George B. Post & Sons, Archs., 347 Fifth Ave., New York, are the Consult. Engrs. Lew F. Porter is Secy. of the Commission, Madison, Wis.

+Buhl, Minn.—The Village Council has awarded a contract to the VIRGINIA HEATING & PLUMBING CO., Virginia, Minn., at $19,600, for laying heating main.

Terry, Mont.—E. H. Phillips has made application for a franchise to install an electric-light system.

+Springfield, Mo.—The Springfield Traction Co. has awarded a contract for a switchboard to the GENERAL ELECTRIC CO.

+Fort Bliss, Tex.—A contract has been awarded to the WESTINGHOUSE ELECTRIC & MFG. CO., by the U. S. Quartermaster's Department, for furnishing transformers, wattmeters and switchboards at Fort Bliss and at the Angel Island Recruit Depot near San Francisco. The Post is to have an electric lighting system installed, energy being purchased from the local electric power company.

Harlingen, Tex.—A bond issue of $22,000 has been voted to be used for water-works and an electric light plant.

Bastrop, Tex.—Improvements will be made to the street-lighting system by the Bastrop Water & Light Co., including the installation of 500-c.p. lamps in part of the business district and 100-c.p. lamps in the residential section.

Carrizo Springs, Tex.—Press reports state that an electric street-lighting system will be installed.

+Menard, Tex.—The city has awarded a contract to CLARKE & BURGE, Chicago, Ill., for the construction of an electric-light plant and water-works system.

Ochelata, Okla.—The Western Engineering Co., Oklahoma City, is planning to install an electric-light plant and water-works system. The cost is estimated at $15,000.

Grove, Okla.—See item under Water Supply-Irrigation.

Montrose, Colo.—The Montrose Electric Light & Power Co., contemplates making extended improvements at its plant.

Roswell, N. Mex.—The Roswell Light & Gas Co. is planning to increase its capacity to 1,500 HP. Two 750-HP. producer gas engines will be installed.

+Boise, Idaho.—A contract has been awarded by the U. S. Reclamation Service to the WESTINGHOUSE ELECTRIC & MFG. CO., for installation of three 625 KVA., 22,000-volt, 3-phase air blast type transformers.

+Salt Lake City, Utah.—A contract was awarded, on Oct. 2, by the County Clerk for a power plant in connection with the Infirmary Hospital, to GILLIS CONSTRUCTION CO. at $23,981. The other bidders were August Rudine, $22,450; Mortensen & De Witt, $24,300; Frederick Dreyer, $21,185; Consolidated Construction Co., $32,678; Campbell Building Co., $24,898.

Crown King, Ariz. — The Arizona Power Co. is considering a plan to build a transmission line between Crown King and Poland Junction, by way of Mayor and Blue Bell. M. V. Watson, Prescott, is Mgr.

Walla Walla, Wash.—A municipal electric light plant is under consideration. The Mayor, it is stated, has authorized the City Council to proceed.

+Pasco, Wash.—The City Council has awarded a contract to the NATIONAL HARVESTER CO., Spokane, Wash., for the installation of an ornamental street-lighting system.

Ellensburg, Wash.—A power plant will probably be installed at the Ellensburg Woolen Mills. J. F. McAfee is Supt.

+Tacoma, Wash.—A contract has been awarded by the Griffin Wheel Co. to the EVANS-DICKSON CO. for the installation of an electric-lighting system at its plant.

Florence, Ore.—The Florence Electric Co. has been authorized by the City Council to erect and operate an electric light and power plant.

Dufur, Ore.—Press reports state that the erection of a municipal electric light plant is being considered.

Portland, Ore.—The Portland Ry., Light & Power Co., Seventh and Alder Sts., Portland, Ore., will install two independent cables under Columbia River from Portland to Vancouver, Wash.

+Medford, Ore.—A contract has been awarded to the SOUTHERN OREGON ELECTRIC CO. to install an ornamental lighting system on Main St. at $37 for each standard and 28 cts. per lin. ft. The standards will be of concrete.

Portland, Ore.—An ornamental cluster street-lighting system will be installed, it is stated, on Grand Ave. for 15 blocks.

+Anaheim, Cal.—The city has awarded a contract to W. W. SCOTT for the building of an addition to the municipal power plant.

Corona, Cal.—The Sierra Light & Power Co. has prepared plans, it is stated, to reconstruct its plant and lines.

+San Bernardina, Cal.—A contract has been awarded to HOYT BROS., Monadnock Bldg., San Francisco, at $20,000, by the Southern Sierra Power Co., for the construction of a 1-story concrete power house, 66 x 67 ft., including the foundations for machinery which will be installed by the C. C. MOORE CO., American Bank Bldg., Los Angeles.

San Bernardino, Cal.—The Southern Sierras Power Co. is reported to be ready to let contracts for the steel towers for the transmission line from Bishop.

San Francisco, Cal.—Bids were received by the Board of Public Works for electric fixtures to be installed in the Hall of Justice as follows: RUDGEAR-MERLE CO., Bay and Stockton Sts., $12,420; ICKLEHEIMER BROS., 439 Cutter St., $18,320.

San Francisco, Cal.—John G. Sutton, 1229 Minna St., was the lowest bidder, submitting a bid of $19,544 to the Board of Public Works, for turbines to be installed in the San Francisco Hospital.

+Los Angeles, Cal.—A contract has been awarded to C. C. MOORE CO., American Bank Bldg., Los Angeles, at $6,955 for installing two water tube boilers in the Manual Art High School.

Halifax, N. S.—The power plant owned by the Nova Scotia Car Works will be enlarged, it is stated. One 600-HP. Corliss engine for direct connection to electric generator, three 200-HP. return tubular boilers with self-supporting steel smoke stack 5 ft. in diameter and 90 ft. high, feedwater heater, piping, etc. The Robb Engineering Co. will be in charge of the work.

Prince Albert, Man.—Plans have been prepared by Cecil B. Smith, Engr., Winnipeg, Man., for the erection of a municipal power plant, the cost of which is estimated at $250,000.

+Portage La Prairie, Man.—A contract has been awarded to ALEX McCARTY for an addition to the municipal electric light plant, including the installation of two 225-HP. engines.

Prince Rupert, B. C.—A municipal electric light plant and water-works system will be built, for which an appropriation of $550,000 has been made. William Mahlor Davis, Prince Rupert, is Ch. Engr. Earnest A. Woods is City Clk.

BRIDGES.

(*+Denotes a contract awarded.*)

+Canajoharie, N. Y.—Press reports state that LATHROP, SHEA & HENWOOD CO., Buffalo, have been awarded the contract for constructing a portion of the bridge over Mohawk River, between Canajoharie and Palatine Bridge, at $43,440.

Butler, Pa.—Bids will be received by the County Commissioners until Oct. 21, for the construction of a bridge over branch of Slippery Rock Creek in Marion Township on road leading from Harrisville to Clintonville. W. B. Scott is Clk.

Pittsburgh, Pa.—Bids for reconstructing the roadway of Aiken Ave. Bridge have been received as follows: Fort Pitt Bridge Co., $11,472; F. F. Shellenberg, $8,300; Booth & Finn, $9,327.

+Pittsburgh, Pa.—The Commissioners of Stowe Township have awarded a contract for the construction of the structural iron work of a bridge to connect Island and Nichol Aves., to the DES MOINES BRIDGE CO., Des Moines, Iowa. The contract price is $19,800. The bridge will span the tracks of the Pittsburgh & Lake Erie Railroad west of McKees Rocks.

Baltimore, Md.—The Pennsylvania R. R., Alex. C. Shand, Ch. Engr., Philadelphia, Pa., will probably construct a steel bridge on Luzerne St., between Ashland and Chase Sts., Baltimore. Estimated cost, $70,000.

Surry, Va.—Bids will be received by the Clerk of Surry Circuit Court until noon, Oct. 28, for constructing a 54-ft. steel truss with concrete abutments on piles, over the Blackwater River in Surry County.

+Sussex, Va.—We are officially advised that a contract for constructing five bridges has been awarded to the ROANOKE BRIDGE & IRON CO., Roanoke, Va., at $5,350.

Wise, Va.—Bids will be received by the Clerk of the Circuit Court until 11 a. m., Oct. 31, for constructing one 87-ft., four 70-ft., three 54-ft. and six 50-ft. truss bridges, five 40-ft. and six 30-ft. I-beam bridges. P. St. J. Wilson, Richmond, Va., is State Highway Comr.

+Huntington, W. Va.—The contract for building the superstructure of the bridge over Guyan River at Russell's Creek has been awarded to the VIRGINIA BRIDGE & IRON CO., Roanoke, Va., at $12,500.

Parkersburg, W. Va.—Press reports state that bonds have been sold for the erection of a bridge over the Ohio River between Parkersburg and Belpre, Ohio. J. M. Newell, Liverpool, Ohio, is interested.

+Natchitoches, La.—We are officially advised that the contract for constructing a steel highway bridge over the Cave River at Bermuda has been awarded to AUSTIN BROS., Dallas, Tex., at $8,600. Noted Oct. 7.

Chattanooga, Tenn.—W. Dunbar Jenkins, Chattanooga, is preparing plans for widening and strengthening the Walnut St. Bridge. Estimated cost, $248,535.

Cleveland, Ohio.—Bonds for $900,000 have been voted for building a bridge to connect East and West Clark Ave.

+Indianapolis, Ind.—We are officially advised that the contract for constructing a bridge at Sunset Ave., an arch bridge on Bluff Road and three culverts in Perry Township, was awarded Oct. 7 to the CENTRAL STATES BRIDGE CO., Indianapolis, at $4,500. Noted Oct. 5.

Ft. Wayne, Ind.—Bids will be received by the Commissioners of Allen County until 10 a. m., Oct. 21, for constructing one bridge, repairing three bridges, and building approaches to several bridges. Calvin H. Buren is County Audr.

***Saginaw, Mich.**—Bids will be received by the Board of Public Works, until 7.30 p. m., Oct. 27, for the construction of a bridge across the Saginaw River on the extension of Johnson St., in accordance with plans and specifications on file in the office of the Board of Public Works and City Engineer. The bridge will be of girder construction, with one opening for the passage of boats, the movable portion of the bridge to be of the Scherzer Rolling Lift type with six fixed spans, supported on concrete masonry piers and abutments, and the necessary filling back of abutments to the adjacent cross streets. William F. Jahnke is City Clk. Advertised last week.

Chicago, Ill.—The Sanitary District Trustees have decided to replace the condemned bridge at Twelfth St. with a $400,000 structure 100 ft. wide to conform with the present boulevard. L. E. McGann is Comr. Pub. Wks.

Hillsboro, Ill.—Bids will be received by G. H. Longwell, City Clk., until 8 p. m., Oct. 23, for the construction of a reinforced-concrete sidewalk in combination with a retaining wall on Seward St. in the city of Hillsboro.

Vermilion, Minn.—We are officially advised that all bids received Oct. 6, for constructing a 55-ft. low truss bridge with concrete piers and steel piling, over the Vermilion River in Section 31, have been rejected, and the work will be readvertised. P. A. Hoffman, Hastings, Minn., is County Audr. Noted Sept. 28.

***Kansas City, Mo.**—Bids will be received by the Board of Public Works until 2 p. m., Oct. 27, for the construction of an ornamental reinforced-concrete arch bridge over Brush Creek, at Wornall Road. Plans and specifications may be obtained from Waddell & Harrington, Consult. Engrs., Kansas City, on deposit of $5.

Pine Bluff, Ark.—Hedrick & Cochrane, Consult. Engrs., are preparing plans for a bridge across the Arkansas River at Pine Bluff.

***Angleton, Tex.**—Bids will be received by the Commissioners' Court of Brazoria County, until noon, Nov. 1, at the office of J. W. Munson, County Judge, Angleton, for furnishing all materials and labor required to construct two bridges over the Brazos River, one at Columbia and one at Brazoria, in accordance with plans and specifications on file at the office of the County Judge.

Galveston, Tex.—See item under Streets and Roads.

Theodore, Utah.—Bids were received by the Commissioner of Indian Affairs, Washington, D. C., Oct. 10 for the construction of a steel highway bridge across the Duchesne River at Theodore, Utah, as follows: Midland Bridge Co., Kansas City, Mo., $1[illegible]; Omaha Structural Steel Wor[illegible], Omaha, Neb., $5,975; Missouri V[illegible] Bridge & Iron Co., Denver, Colo[illegible],750 and $7,785; Central States Br[illegible] Co., Indianapolis, Ind., $6,284; [illegible] Patterson-Berghart Construction [illegible] Denver, Colo., A, $8,898; B, $11,97[illegible] extra concrete, $12 per cu. yd. above water, $2[illegible] per cu. yd. below water. [illegible] Minneapolis Steel & Machine Co., [illegible] Minneapolis, Minn., $7,850. James J. [illegible]k & Co., Inc., Salt Lake City, Utah, $14,90[illegible].

+Burley, Idaho.—The contract for constructing a steel pi[illegible] highway bridge across Snake River near Burley, has been awarded to the PORTLAND BRIDGE & IRON CO., Portland, Ore., at $17,289. Noted Sept. 14.

+Reno, Nev.—We are officially advised that contracts for constructing a steel bridge across Truckee River, were awarded Oct. 3, as follows: steel work, to A. F. NEIDT, at $10,645; substructure and [illegible], to the CANTON BRIDGE CO., Canton, Ohio, at $8,150. Noted Sept. 28.

***Portland, Ore.**—Bids will be received by the Mayor and the Executive Board of Portland until noon, Dec. 1, for building the superstructure of a bridge over the Willamette River on a westerly extension of Boadway. Plans and specifications are on file at the office of the City Engineer, or may be obtained from Ralph Modjeski, Consult. Engr., Monadnock Block, Chicago, Ill.

Watson, Ore.—A steel bridge over the Owyhee River will be erected near Watson by the County Court.

Meridian, Cal.—Plans for the joint railway and wagon bridge to be built across the Sacramento River at Meridian by the Northern Electric Co., and Sutter and Colusa Counties, have been submitted to the Boards of Supervisors of the two counties by the railroad company. The specifications show that the bridge will be of concrete and steel, and will cost in the neighborhood of $241,000.

+Marysville, Cal.—We are officially advised that bids for constructing three steel and concrete bridges were received Oct. 7 as follows: Jenks & Wells, (A) $3,478, (B) $3,188, (C) $2,468; Colton Bros., (A) $3,710, (B) $3,522, (C) $2,296; Hyde Harges, (A) $3,460, (C) $2,310; Ross Construction Co., (A) $3,400, (B) $2,990, (C) $1,990; GROH & SON, (C) $1,500 (awarded contract C). Bids for bridges A and B were rejected.

Vancouver, B. C.—Press reports state that plans have been completed for four bridges to be erected for Vancouver. The cost is estimated at from $223,600 to $435,000 for each structure. Waddell & Harrington, Kansas City, Mo., are Consult. Engrs.

BUILDINGS.

(**Denotes that this work is advertised in Engineering News.*)

Boston, Mass.—A large apartment block is to be begun at once at 115 Hemenway St. for Kanter & Altman. To be of brick and stone, five stories, 75 × 70 ft., to cost $100,000. F. W. Norcross, 46 Cornhill, is the Arch.

A 15-apartment building is to be built at once at 125 Ruthven St., Roxbury District, for Barnard Glasser. To be of brick, three stories, 100 × 80 ft. to cost $45,000. The Silverman Engineering Co. are the Archs.

+The contract for the brick mercantile building to be built on Friend and Causeway Sts. for the estate of James H. Beal has been awarded to the TYSON CONSTRUCTION CO., 6 Beacon St. To be 76 × 28 ft., five stories, to cost $60,000. James Purdon, 8 Beacon St., is the Arch.

A 10-apartment building to cost $55,000 is to be built immediately at 926 Beacon St. for Wm. A. Davidson, of 46 Harvard St., Dorchester. To be five stories, of brick and stone, 62 × 25 ft. C. A. and F. N. Russell, 50½ Warren St., Roxbury, are the Archs.

Cambridge, Mass.—The site for the proposed buildings for the Institute of Technology will be beside the Charles River. A group of buildings to cost $750,000 will be erected. Richard C. MacLaurin is Pres.

+Springfield, Mass.—The contract for the mason work for the block on Bond and North Sts. to be erected for H. Goodseit and M. Sadowsky, was awarded to MITCHELL BARBEAU. To be four stories, 72 × 56 ft. B. E. Geckler is the Arch. Noted Sept. 28.

+Haverhill, Mass.—The contract for the lodge building for the Ancient Order of Hibernians has been awarded to JOHN M. ROCHE, 357 Primrose St. The structure will be of brick, four stories high, 80 × 50 ft., to cost $45,000. McFarland & Colby, 46 Cornhill, Boston, are Archs.

+Worcester, Mass.—The contract for constructing the Merrifield Trust Co. Bldg. on Union St. has been awarded to the J. W. BISHOP CO., 109 Foster St. The estimated cost is $50,000.

Cambridge, Mass.—Plans have been prepared and presented to the Harvard University Corporation for the erection of a building on the site of Gove Hall running parallel with Massachusetts Ave. The cost may reach $2,000,000.

Winchester, Mass.—The Baptist Church Society is contemplating the erection of a church on Main and Cross Sts. The structure will be of concrete blocks, plastered, 77 × 35 ft. J. Marsden Parks, 703 Old South Bldg., Boston, is Arch.

+**Bridgeport, Conn.**—Contracts for the dentistry building for Dr. A. C. Fones have been awarded as follows: Mason work, WILLIAM MARTIN & SON; carpenter work, metal work and skylights, CHRISTENSEN & CHRISTENSEN. The plans were drawn by Archs. Skinner & Walker and provide for a brick building two stories high with marble trim and ornamental iron balconies and other distinctive features which were noted Sept. 7.

Buffalo, N. Y.—The Keystone Warehouse Co. has completed plans and will soon award contract for a 6-story and basement addition 140 × 130 ft., reinforced concrete construction, to be made to its storage warehouse at Seneca and Alabama Sts. and the Pennsylvania R. R.

Esenwein & Johnson, Archs., 781 Ellicott Square Bldg., are preparing plans for a 10-story building, 90 × 85 ft., steel and glazed terra cotta, to be erected at Washington and Eagle Sts. The structure will be used as an annex to the J. N. Adam Co. department stores. The estimated cost is $200,000.

Rochester, N. Y.—Crandall & Strobell, Archs., E. & B. Bldg., are preparing plans for a 7-story and basement department store, 62 × 227 ft., and extension 42 × 100 ft., for power-house and restaurant, to be erected at St. Paul and Division Sts. by E. W. Edwards & Son. The estimated cost is $200,000.

+**New Rochelle, N. Y.**—The contract for constructing a 3-story 45 × 70 ft. residence for R. B. Ward, has been awarded to THOMAS J. REED & CO., New Rochelle, at $50,000.

New York, N. Y.—An addition will be erected to the Baron de Hirsch Trade School to cost $125,000. The extension will be six stories high on 64th St. east of Third Ave. Shine & Kaufman, 110 East 23d St., are the Archs.

New York, N. Y.—Plans have been completed by Gronenberg & Leuchtag, 2 West 22d St., for the erection of a 6-story tenement, 100 × 58.10 ft., at 111th St. west of Fifth Ave. Samuel Roseff, 11 Park Ave., Mt. Vernon, N. Y., is owner. Estimated cost, $70,000.

Plans have been completed by Sommerfeld & Steckler, 31 Union Sq., for the erection of a 6-story tenement building, at the northeast corner of 122d St. and Manhattan Ave., for the Hancock Construction Co., 430 West 119th St. Estimated cost, $110,000.

The Great Center Realty Co., 45 West 34th St., will erect an elevator apartment house at Edgecombe Ave. and 153d St. An architect has not yet been selected.

Plans are being prepared by Paul C. Hunter, 191 Ninth Ave., for the erection of a 5-story fireproof apartment house, 51 × 100 ft., at the southwest corner of Eighth Ave. and 22d St. The cost is $100,000. The Moore Estate, 191 Ninth Ave., is the owner.

Plans are being prepared by Gronenberg & Leuchtag, 7 West 22d St., for three 3-story tenement buildings at 223d St. east of White Plains Ave. The cost is $51,000. The Morris Improvement Co., 34 West 112th St., is the owner.

Eli Benedict, 1947 Broadway, Arch., has completed plans and will take bids shortly for the 1-story brick and limestone church, 50 × 80 ft., at the southwest corner of Olmstead and Newboldt Ave., Bronx, for the Church Extension Committee of the Presbytery of Unionport, N. Y., 156 Fifth Ave. Rev. C. E. B. Ward, 1241 Olmstead Ave., is pastor. The cost is $40,000.

Rochester, N. Y.—Plans have been prepared for E. W. Edwards & Son, Syracuse, for the erection of a 10-story addition to their store on Main St. The cost is $200,000.

Jersey City, N. J.—Bids will be received by James Knox Taylor, Superv. Arch., Treas. Dept., until 3 p. m., Nov. 22, for the construction (except mechanical equipment) of the U. S. post-office at Jersey City. The building is to have a ground area of approximately 22,000 sq. ft. and will be two stories high with unfinished attic; all walls will have granite facing and the building is to be fireproof.

Spring Lake, N. J.—Plans are being prepared by Price & McLanahan, Arch., 1624 Walnut St., Philadelphia, Pa., for the erection of a $75,000 addition to the Dunes Hotel.

Philadelphia, Pa.—Plans are being prepared by Ballinger & Perrot, 1211 Arch St., for a clubhouse and garage to be erected for the Automobile Club of Philadelphia. The estimated cost is $100,000.

Philadelphia, Pa.—Bids have been received for the construction of a passenger station, at Girard Ave., for the Philadelphia & Reading Ry. Co., as follows: Irwin & Leighton, Franklin Bldg., $47,740; Armstrong & Latta, Land Title Bldg., $49,900; M. P. Wells, Witherspoon Bldg., $52,000; George & Borst, 277 South Eleventh St., $52,309; John W. Emery, 1524 Sansom St., $52,709; H. E. Baton, Tenth and Sansom Sts., $53,500; F. A. Havens & Co., 845 North Nineteenth Sts., $56,803; George Hogg, 1634 Sansom St., $58,860.

Philadelphia, Pa.—Plans are being prepared by Esenwein & Johnson, 775 Ellicott Sq., Buffalo, N. Y., for a 10-story hotel to be erected for Charles H. Vendig at 13th and Fibbert Sts. The estimated cost is $500,000.

Philadelphia, Pa.—Bids were received on Oct. 9, for constructing an auditorium in Fairmount Park, as follows: Charles McCaul Co., Tenth and Sansom Sts., $4,430,000, $1,258,736, $2,110,000 and $1,232,000; James G. Doak & Co. Crozer Bldg., $4,484,400, $1,263,300, $1,739,800 and $1,479,000. Noted Oct. 5.

Philadelphia, Pa.—Plans have been prepared by Simon & Bassett, 1112 Chestnut St., for a 10-story clubhouse to be erected at Broad and Walnut Sts., for the Manufacturers Club. The estimated cost is $600,000.

+**Philadelphia, Pa.**—The contract has been awarded to the PENNSYLVANIA CONSTRUCTION CO. for the erection of a 3-story stone rectory for the Church of the Holy Comforter at 48th St. and Haverford Ave.

+**Pittsburgh, Pa.**—The contracts for constructing a (A) shelter shed over Southfield St., and (B) a subway under Southfield St., have been awarded to (A) W. F. TRIMBLE & SONS CO., and (B) McKELVEY-HINE CO., both of Pittsburgh. The estimated cost is $50,000. Noted Oct. 5.

***Homestead, Pa.**—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Dec. 14, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits, and wiring, and interior lighting fixtures), of the U. S. post office at Hemstead, Pa. The building is 1-story and basement and has a ground area of approximately 5,400 sq. ft.; fireproof except roof; brick facing and stone trim. Drawings and specifications may be obtained from the custodian of site at Homestead, Pa., or from the Supervising Architect.

+**Baltimore, Md.**—The contract for constructing a 10-story apartment house to be erected for S. H. Linthicum at Park Ave., and Whitlock St., has been awarded to SWEETSER LINTHICUM, JR., 231 Cortland St. The estimated cost is $250,000. Noted Sept. 28.

Washington, D. C.—Bids were received as follows on Oct. 10, by James Knox Taylor, Superv. Arch. Treas. Dept., for the construction of a post-office building at Washington, D. C.: John Gill & Sons, Cleveland, Ohio, Maine granite, $2,187,000; white granite, $2,282,000; white marble, Florence, add $19,000, Vermont add $81,000, Georgia add $110,000, limestone deduct $110,000. Norcross Bros. Co., Worcester, Mass., granite, $2,276,000; white marble add $8,000. W. A. Chesterman, Richmond, Va., granite, $2,540,000; white marble add $110,114; limestone deduct $108,000. Andrew Dall & Son, Cleveland, Ohio, Fitzwilliam granite, $2,972,000; Milford granite, $3,042,000; Bethel white granite, $3,058,000. Elevator plant: A. B. See Electric Elevator Co., Washington, $57,400; Otis Elevator Co., New York, $44,179. Noted Aug. 31.

+**Atlanta, Ga.**—We are officially advised that the contract for constructing the foundations of the Fulton County Court House, has been awarded to the McARTHUR CONCRETE PILE & FOUNDATION CO., 11 Pine St., New York. This building will be a 9-story reinforced concrete structure and is to cost about $750,000. A. Ten Eyck Brown and Morgan & Dillon are Archs. W. C. Spiker is Consult. Engr.

Indianola, Iowa.—The Simpson College proposes to erect an auditorium building, to cost $50,000.

Shreveport, La.—Capt. Peter Youree, of the Commercial National Bank, it is stated, will erect a $300,000 hotel at Travis and Market Sts., eight stories high.

Nashville, Tenn.—Ludlow & Peabody, 12 West 31st St., New York, N. Y., have received the appointment as architects to design plans for the George Peabody College for Teachers, at Nashville, Tenn. The work contemplated is a group of about forty buildings.

Union City, Tenn.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Dec. 5, for the construction, complete (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and interior lighting fixtures) of the U. S. post office at Union City, Tenn. The building will be 1-story with mezzanine and will have a ground area of approximately 3,200 sq. ft., with brick facing and stone trim, the first floor only being of fireproof construction. Drawings and specifications may be obtained from the custodian of the site at Union City, Tenn., or from the Supervising Architect.

Piqua, Ohio.—Plans have been prepared by William Earl Russ, of Dayton, Ohio, for a new city hall for Piqua to cost in the neighborhood of $110,000.

Cincinnati, Ohio.—Garber & Woodward and Cass Gilbert, Archs., have filed applications for a permit for a 27-story steel office building to be erected for the Union Central Life Insurance Co. on the site of the old Chamber of Commerce Building. The estimated cost is $2,000,000.

Dayton, Ohio.—Bids will be received by James Knox Taylor, Superv. Arch., Treas. Dept., Washington, D. C., until 3 p. m., Nov. 20, for constructing the U. S. postoffice and courthouse at Dayton. The building to be of fireproof construction, three stories high, stone faced, with a ground area of approximately 27,000 sq. ft.

Bloomington, Ind.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Nov. 29, for the construction of a 1-story, basement, and a mezzanine-story stone-faced building of approximately 4,200 ft. area, fireproof construction throughout (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and lighting fixtures), for the U. S. post office at Bloomington, Ind. Drawings and specifications, may be obtained from the custodian of site at Bloomington, Ind., or from the Supervising Architect.

Evansville, Ind.—The Merchants Grocery Co. are preparing to ask for bids for the construction of a new 4-story brick and stone wholesale business building on corner Ohio and Goodsell Sts. J. P. Christney is Pres., and H. T. Cooper, Secy.

Rockville, Ind.—The commissioners of Spencer County will receive bids until 10 a. m., Dec. 5, for the construction of a County Infirmary. Plans and specifications on file at the office of John T. White, County Audr.

Grand Rapids, Mich.—The Schlitz Brewing Co., Scribner and Leonard Sts., contemplate erecting a 3-story lodge and store building in the near future. Architects to be selected.

Robinson & Campau, 449 Houseman Bldg., Grand Rapids, Mich., are preparing plans for a 4-story High School, 250 × 70 ft., and a 2-story and basement wing, 100 × 104 ft., for the Board of Education of Kalamazoo, Mich. H. H. Buckhout, Secy., Kalamazoo. Owner will take figures about Dec. 1. Building to be of fireproof construction and will cost $200,000.

+J. & G. Daverman, 21 Canal St., Grand Rapids, have awarded the general contract for a Polish hall, 60 × 80 ft., for the Polish Guards, care of architects, to BANAZAK CONSTRUCTION CO., of Grand Rapids.

Kalamazoo, Mich.—The Knights of Pythias of Kalamazoo, L. P. Thurston, Chn. of Building Com., 514 West Main St., are contemplating a lodge building to be erected in the near future. Architects have not been selected.

+**Muskegon, Mich.**—Vanderwest & Pease, 2 Montgomery Bldg., have awarded the general contract for the 2-story and basement school building to J. W. PETTIBONE, Muskegon, Mich. Steam heating and plumbing to R. H. STEVENSON & CO., 99 South Terrace St.

Detroit, Mich.—The Loyal Order of Moose, Dr. S. Porter Tuttle, Chn. Bldg. Com. are contemplating erecting a temple to be located at Ottawa and Michigan Aves. Cost, $200,000.

Detroit, Mich.—Baxter & O'Dell, 1024 Hammond Bldg., have been commissioned by Hart Bros., 105 Chamber of Commerce Bldg., to prepare plans for a 3-story and basement apartment building, 45 × 107 ft. Owners will purchase materials and sublet contracts. Cost, $40,000.

The Common Council of the City of Detroit has directed the Controller to issue $41,000 in bonds for the erection of a public bath house. Work to be done under the direction of the Department of Pub. Wks. J. J. Haarer, Comr., 104 City Hall.

Baxter & O'Dell, 1024 Hammond Bldg., have awarded the following contracts for the 8-story and basement store building, 107 × 102 ft., for E. Galogly, Milwaukee and Cass Aves.; structural iron work to H. B. LEWIS, 45 Joseph Campan Ave.; masonry, to W. VIVIER, 1020 Second Ave.; carpentry, to TONN & SCHREIBER, 1275 Bellevue Ave. Cost, $35,000.

Chicago, Ill.—It is reported that John A. Bichford is planning the erection of an apartment house at Arnold Ave. and Howard St., to cost $100,000.

Madison, Wis.—We are officially advised that the lowest bid received by M. E. McCaffrey, Secy., University Wisconsin, on Oct. 9, for constructing the west wing of the Chemistry Bldg., was that of C. B. & A. K. Fritz, Madison. Noted Oct. 5.

Milwaukee, Wis.—A 3-story hotel building, 30 × 123 ft., will be built for A. G. Mueller on National Ave., near Eleventh Ave. The structure will be of solid brick construction and will contain 150 rooms. Bids are being received by Gustav Dick, Arch., 1107 Pabst Bldg.

The plans for C. H. Kalvelage's new building at Broadway and Menomonee Sts. have been revised. The building will be four stories, and will measure 20 × 80 ft.

Madison, Wis.—Plans for the superstructure of the northwest wing of the state historical building are being completed by A. H. Peabody, Superv. Arch. The excavation contract for the same building has been awarded to GEORGE R. LEACHIE, of Madison. The total appropriation for the new wing is $165,000. The Copps Brothers of Madison have bid lowest for the $15,000 gymnasium annex.

Virginia, Minn.—The Board of Education is considering plans for an 8-room school. Probable cost, $45,000.

***Parsons, Kan.**—Bids will be received by James Knox Taylor, Superv. Arch. Treasury Dept., Washington, D. C., until Dec. 2, for the construction of a 1-story and basement brick and stone faced building, covering approximately 5,600 sq. ft. ground area; tin roof and first floor of fireproof construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and lighting fixtures), for the U. S. post office at Parsons, Kan. Drawings and specifications may be obtained from the custodian of site at Persons, Kan., or at the discretion of the Supervising Architect.

***Omaha, Neb.**—Bids will be received by the Board of County Commissioners until noon, Oct. 11, for furniture and fixtures, both wood and steel, etc. John Latensen, 632 Bee Bldg., Omaha, is Arch.

Vermillion, S. Dak.—Lloyd D. Willis, Arch., Weade Block, Omaha, Neb., has awarded the contract for a courthouse at Vermilion to HEINTZ & MALLOY, Aberdeen, S. Dak. It will be two stories and basement, 65 × 100 ft., and will cost about $75,000.

***Huron, S. Dak.**—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until Nov. 27, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring, and interior lighting fixtures) of the U. S. post office at Huron, S. Dak. The building is to be two stories and basement, with a ground area of approximately 6,100 sq. ft., granite course at grade and stone facing above, except the rear, which is faced with brick; the roof covering is to be tile, and all construction throughout the building fireproof except the roof. Drawings and specifications may be obtained from the custodian of site at Huron, S. Dak., or at the discretion of the Supervising Architect.

Booneville, Mo.—Plans by Richards, McCarthy & Bulford, The Ruggery, Columbus, have been approved by the U. S. Treasury Dept., Washington, D. C., for the U. S. post-office. The cost is $60,000.

Little Rock, Ark.—It is reported that T. M. Sanders, of Little Rock, is preparing plans for a 3-story mercantile building to be erected at Capitol Ave. and Center St. The structure will cost about $40,000.

El Paso, Tex.—Plans have been prepared by Roberts, Thorman & Beutell for a hospital to be erected on Lawton and Upson Aves. The estimated cost is $60,000.

Temple, Tex.—It is reported that the construction of a passenger station is proposed. Cost, $60,000. The Missouri, Kansas & Texas R. R. Co., S. B. Fisher, Ch. Engr., is owner.

Guthrie, Okla.—Plans have been prepared by Arthur G. Doyle, for the erection of a $100,000 administration building for the Methodist University of Oklahoma, at Guthrie.

Kellogg, Idaho.—A 4-story brick building will be erected by the Kellogg Investment Co. on McKinley Ave. Cost, $50,000.

Tucson, Ariz.—Bids will be received up to 11 a. m., Oct. 29, by the Constructing Quartermaster of Fort Huachuca, Ariz., for six cavalry stables, including plumbing. Separate bids for plumbing will not be considered.

Seattle, Wash.—The contracts for the interior decorations on the Schafer Bldg., will probably soon be awarded. Plans have been prepared by E. W. Houghton, Collins Bldg., The estimated cost is $40,000.

Spokane, Wash.—Plans are being prepared by Jones & Levesque, Archs., Mohawk Block, for an apartment house to be erected by E. L. Rice at Fifth and Lincoln St. The estimated cost is $50,000.

+**Tacoma, Wash.**—The contract for constructing a residence at North Sixth St. and Yakima Ave., has been awarded to GEORGE PLYMPTON, 1005 South Prospect St., at $40,000. Plans have been prepared by Heath & Gove.

+**Walla Walla, Wash.**—The contract for erecting a church at Park St. and Boyer Ave., has been awarded to W. J. McCLEAN, Seattle, at $45,000. Plans have been prepared by U. Grant Fay, Seattle. Rev. D. D. McLaurin is pastor.

Everett, Wash.—A 3-story apartment house will probably be erected here by J. T. Gowen on the southeast corner of Hoyt Ave. Cost, $40,000. W. W. Hartings is Arch.

+**Berkeley, Cal.**—J. C. Newson, Arch., Monadnock Bldg., San Francisco, has awarded the contract to H. H. HINDS, c/o Builders' Exchange, San Francisco, for the construction of a 4-story brick hotel at Haste and Telegraph Aves., for J. R. Newson. The estimated cost is $55,000.

Fresno, Cal.—C. K. Kirby, Jr., is preparing plans for 3-story and basement modern hotel 150 × 150 ft., to be erected at corner of Mariposa and H Sts. for Louis Einstein. Cost about $90,000.

The Supervisors have rejected all figures for the alterations for the county jail. The plans were prepared by Arch. Mathewson and called for about $40,000 worth of repairs and additions. The plans will be slightly revised and new figures will be called. The cell work will be considered separately from the general contract when the plans are again put out for figures.

Los Angeles, Cal.—Le Clair & Pitzen are preparing plans for a 3-story and basement brick apartment house to be erected at 27th St. near Figueroa for Jacob Gold. It will be 130 × 164 ft., with central court 18 ft. wide, and will contain 250 rooms. The cost is about $124,000.

San Francisco, Cal.—L. B. Dutton has prepared plans for 4-story and basement brick and steel apartment house to be erected at corner of California and Hyde Sts. Cost of work is estimated at $75,000.

Architects Welsh & Carey have prepared plans for a 5-story and basement brick and steel apartment house which is to be erected for The O'Keefe Estate at corner Geary and Hyde Sts.

The work will cost in the neighborhood of $40,000. The exterior of the building will be faced with white cement plaster. Plans are out for figures.

Macdonald & Applegarth, Archs., Call Bldg., are preparing plans for a large reinforced-concrete commercial structure which will be erected in the west side of Front St., 28 north of Market, for A. B. Spreckles. The improvements will cost about $100,000.

✚San Francisco, Cal.—C. H. Skidmore, 68 Post St., awarded contract to H. C. WARWICK, 180 Jessie St., at $57,980 for the erection of a 5-story reinforced-concrete rooming house for the C. G. Burnett Estate Co. on Market St. near Marshall Sq.

✚The general contract has been awarded to WILLIAMS BROS. & HENDERSON, Monadnock Bldg., at $44,200 for a 5-story brick apartment house at Ellis and Jones Sts. L. C. Mendel, 200 Broderick St., is the owner. (Noted Aug. 31.)

✚Reed & Meyer, Oakland Bank of Savings Bldg., Oakland, Cal., awarded contracts as follows for work on a 7-story Class A bank and office building for the Security Bank & Trust Co. at Eleventh St. and Broadway, Oakland: McGILVRAY STONE CO., Seventh and Townsend Sts., stone work at $10,800; ROEBLING CONSTRUCTION CO., Crocker Bldg., concrete work at $16,650; RUDGEAR-MERLE CO., Bay and Stockton Sts., metal work at $12,000; BELLEFONTAINE & MUNSON, metal lathing at $59,500.

Bakersfield, Cal.—The Building Committee of the Bakersfield Club has adopted plans for a 4-story brick clubhouse to be erected at 19th and F Sts. The cost is about $50,000.

Riverside, Cal.—Plans are being prepared by Myron Hunt, 1017 Union Trust Bldg., Los Angeles, for the 12-story steel frame and brick building to be erected by H. E. Huntington on Twelfth and Main Sts.

✚San Francisco, Cal.—Lewis P. Hobart, Arch., Crocker Bldg., has awarded the contract for the brick and terra cotta work on a group of hospital buildings for the St. Luke's Hospital at Army and Valencia Sts., to FARRELL & REED, Third and Mission Sts., at $55,500.

Angelo Baldocchi has taken out a permit for the construction of a 5-story brick apartment house on Bush St. The estimated cost is $72,000.

Los Angeles, Cal.—J. Martyn Haenke, Arch., 414 Central Bldg., has prepared plans for a 4-story and basement apartment hotel to be erected at Sixth St. and Commonwealth Ave., to cost about $250,000.

Chas. F. Helmle, 508 Lissner Bldg., is preparing plans for a 4-story and basement brick and concrete apartment building, 110 × 122 ft., to be erected at the southeast corner of 6th and Loomis Sts., for I. M. Hollingsworth and W. H. Beman. The estimated cost is $80,000.

The Directors of Evergreen Cemetery Ass'n,, Bradbury Bldg., are contemplating the erection of a modern tourist hotel on the east side of Grand Ave., near Ninth St. The expenditure will be about $50,000. J. M. Elliott, Pres. First Natl Bank, is one of the directors.

Los Angeles, Cal.—The Hass-Barauch Co. will erect a 5-story and basement building, 175x250 ft. at Second and Alameda Sts. Plans have been prepared by Morgan, Walls & Morgan, Archs. Four electric elevators will be installed The building will cost approximately $180,000.

Plans have been approved for erection of an 11-story Belasco theatre building to be erected on Broadway, between Seventh and Eighth Sts. The building will cost about $500,000.

Los Angeles, Cal.—Sketches prepared by Nat Ellery, State Engr., for the armory to be built in Exposition Park are being inspected by officials of National Guard Corps. Sketches provide for a building, 192 × 276 ft., greater portion being devoted to drill room, 175 × 200 ft., with steel frame and steel roof trusses. The administration portion to be three stories and basement to contain offices, locker, store and shower rooms, officers' quarters, hospital rooms, etc. The sum of $200,000 has been appropriated for the construction and furnishing of the building.

Porterville, Cal.—Plans are being prepared for an addition to the Union High School. Two buildings of granite structure will be erected, $60,000 being on hand for the work.

Placentia, Cal.—Bids will be received up to 1 p. m., Nov. 1, for an 8-room school house. All bids must be accompanied by check for 5% of bid. George B. Key is Clk. of the Bd.

Longbeach, Cal.—The Longbeach Lodge of Elks has received the completed plans of Fisher & Lory, Archs., Omaha, Neb., for the proposed lodge building to be erected on Ocean, near Cedar Ave. It will be 55 × 110 ft., 3 stories high, of brick construction. The building will be equipped with an elevator and all modern conveniences. W. Horace Austin, 18 Locust Ave., will be the supervising architect. Bids will be called for at once.

San Francisco, Cal.—W. H. Weeks, Arch., is preparing the working drawings for the construction of an 8-story and basement steel frame building which is to be erected on Post St., adjoining the Mechanics' Institute Bldg. The new structure will be designed for stores on the first floor and offices on the upper floors. The building will cost about $100,000.

San Francisco, Cal.—Geo. W. Kelham, Arch., Crocker Bldg., is preparing plans for a 6-story fireproof store and office building to be erected at New Montgomery and Jessie Sts., at a cost of $300,000.

✚Vancouver, B. C.—The Norton-Griffith Steel Construction Co., it is reported, has been awarded the contract at about $60,000 for the erection of a 3-story hotel.

WATER SUPPLY—IRRIGATION.

(*✚Denotes a contract awarded.*)

Boston, Mass.—Bids for laying 1,200 ft. of 8, 10 and 12-in. water pipe in various streets will be received by the Public Works Department until Oct. 20. Louis K. Rourke is Comr.

Buffalo, N. Y.—The City Council has directed Francis G. Ward, Comr. Pub. Wks., to advertise for bids for laying 8 and 6-in. c.-i. water mains in Warwick, Olympic, Connelly and Manhattan Aves. and Desdemona St.

***New York, N. Y.**—Bids will be received by the Board of Water Supply, 165 Broadway, New York, until 11 a. m., Oct. 31, for Contract 75, for the construction of the Bay Ridge conduit, a portion of the city pipe lines of the Catskill Aqueduct, in the City Aqueduct Department and extending from the junction of 36th St., and Fifth Ave. in the Borough of Brooklyn, in a generally southwesterly direction along Fifth Ave, 64th St., Fourth Ave., 67th St., and Second Ave. to 79th St., and through Seventy-ninth St. to the Shore Road. The work to be done includes furnishing and laying of about 16,400 ft. of 48-in. c.-i. pipe, 36 ft. of 36-in. c.-i. pipe, valves and other appurtenances, together with maintenance for one year. Advertised last week.

***Kings Park, N. Y.**—Bids will be received until 3 p. m., Oct. 25, by the State Commission in Lunacy, 53 Lancaster St., Albany, N. Y., for three water-tube boilers at the Kings Park State Hospital, Kings Park. Drawings and specifications may be consulted and blank forms of proposal obtained at the Kings Park State Hospital, Kings Park, at the office of the State Commission in Lunacy, No. 1 Madison Ave., New York, and at the office of the State Architect. Complete sets of plans and specifications will be furnished to prospective bidders upon reasonable notice to, and in the discretion of Franklin B. Ware, State Arch., Albany.

Aspinwall, Pa.—Bids will be received until Oct. 23 by S. R. Chase, Boro. Clk., for the following, the bids to be submitted separately: Furnishing material and constructing a concrete reservoir; furnishing and delivering a compound Duplex non-condensing pumping engine; 200 ft. of 8-in. and 2,600 ft. of 6-in. c.-i. water pipe; furnishing and delivering a 35,000-gallon water tank.

✚Huntingdon, Pa.—P. H. Bergen, Supt. Huntingdon Water Co., has awarded the contract for the construction of a dam to HALL & GRELOCK, of Huntingdon, work to begin in the spring.

✚*Greencastle, Pa.—We are officially advised that bids were received as follows on Oct. 11 by the borough for the construction of a reservoir, involving about 25,000 cu. yds. of earth excavation, and 1,250 cu. yds. of concrete in lining and accessories: Whiting Turner Construction Co,, Baltimore, Md., $32,265; GIFFORD CONSTRUCTION CO., Jamaica (L. I.), N. Y, $21,682; (awarded contract); G. W. Ensign, Camp Hill, Pa., $29,595; S. B. Angle, Hagerstown, Md., $41,703; Thomas Fitzgerald Co., Fredonia, N. Y., $26,616; Hutcheson & Van Ostrand, Newark, N. J., $25,528; James Ferry & Sons, Pittsburg, Pa., $31,747. Engineer's estimate, $21,534; Mason D. Pratt is Engr., 16 South Market St., Harrisburg, Pa.

Clayton, Del.—The city is considering the installation of a water-works system.

***Cumberland, Md.**—See item under "Proposals."

Richmond, Va.—The Council Committee on Water has requested E. E. Davis, Supt. Water Dept., to prepare plans for a 20-in. c.-i. main along the bed of the James River from the new electric plant, where connections can be made with the city mains, to Manchester water-works in order to supply South Richmond from settling basins. Estimated cost, $70,000.

Norfolk, Va.—The Norfolk County Water Co., Norfolk, is considering improvements to its plant, to cost $300,000.

Northfork, W. Va.—Bids will be received by the city until Oct. 23 for constructing two 50,000-gallon reinforced concrete water tanks. R. R. Roberts is Mayor. Noted on Aug. 24.

Weldon, N. C.—The city has engaged W. C. Riddick, Consult. Engr., of Raleigh, N. C., to make preliminary surveys for water supply, reservoir, pipe lines and sewer connections. Bonds for $40,000. Noted on Oct. 5.

Selma, N. C.—The town is considering improvements to the water-works and electric light plant. Estimated cost, $20,000.

Columbia, S. C.—Bids will be received until Oct. 31 by the city for furnishing and laying about 3,600 ft. of 6-in. water main in various streets.

Baxley, Ga.—The city is considering the installation of a water-works system.

***Pensacola, Fla.**—See item under "Proposals."

Union Springs, Ala.—See item under Streets and Roads.

✚Tylertown, Miss.—The contract for drilling a deep well here has been awarded to NALLY BROS., of Brookhaven, Miss., by Q. D. Sauls, owner of the water-works franchise.

Amory, Miss.—The city has voted $65,000 of bonds for the construction of water-works and sewers. The Solomon-Norcross Co., Candler Bldg., Atlanta, Ga., is Engr.

Jackson, Miss.—J. H. Fewell, Water Com., has recommended the installation of 1,000 water meters.

Lecompte, La.—The city has voted to issue $28,000 of water-works bonds.

Loreaville, La.—Bids will be received until Nov. 15, by the city for constructing water-works, including a wooden tower and tank.

Roseland, La.—The city has voted to issue $21,000. of water-works bonds.

Cleveland, Ohio.—Bids will be received until Oct. 24 by the Director of Public Service for pumps for fire service. I. O. Hoffman is Secy.

Navarre, Ohio.—The Village Council has passed a resolution for the issuance of $25,000 for bonds for purchasing lands and rights of way for the construction of a water-works system. W. H. Stahl is Village Clk.

Alliance, Ohio.—Chester & Fleming, Hydraulic Engrs., Pittsburgh, Pa., have been employed by the city to make an investigation and submit a report with recommendations on proposed improvements and extensions of the water supply.

Cleveland, Ohio.—Bids will be received until Oct. 31 by the city for the construction of the new West Side water tunnel.

✚Toledo, Ohio.—The contract has been awarded to the BEERS-OFFUTT CONSTRUCTION CO., of Fort Wayne, Ind., by the city for the construction of the filtered water reservoir, at $114,400. Bids were opened on Sept. 29. List of bidders were noted on Oct. 5.

Ferdinand, Ind.—The town is planning to install a modern water-works plant.

Huntingburg, Ind.—The City Engineer will prepare plans and specifications for water main extension in the north section of the city.

Detroit, Mich.—Bids will be received by the Board of Water Commissioners until noon, Oct. 24, for laying a 24-in. submerged water main across the River Rouge near Fort St. West. Benj. F. Guiney is Secy.

L'Anse, Mich.—The town has voted to issue bonds for the installation of water-works.

Lansing, Mich.—The Board of Public Works, is contemplating a new addition to the water-works.

Chicago, Ill.—The lowest bid submitted to L. E. McGann, Comr. Pub. Wks., for furnishing and delivering to the Meter Mechanical Division, brass nipples of various sizes, was that of J. J. Ryan & Co., Jefferson and Monroe Sts., Chicago, as follows: 2,000 ¾-in. at 32 cts. each, 1,000 1-in. at 39 cts. each, 500 1½-in., at 68 cts. each. Bids were opened on Sept. 30.

Bids will be received by the Board of Local Improvements, until 11 a. m., Oct. 19, for furnishing all labor, and materials, necessary for constructing water supply pipes with necessary hydrants, valves, basins, etc., in West Ohio St., North Campbell Ave. to Artesian Ave., Thomas St., Western Ave. to Oakley Ave., Walton Pl., Lincoln Parkway to Lake Shore Drive and Tremont St., 101st Pl. to 102d St. E. J. Glackin is Secy.

Gardiner, Ill.—The city is considering laying water mains in several streets. Estimated cost, $30,000. H. L. Emerson, 138 Washington St., Chicago, Ill., is Engr.

✚Barrington, Ill.—The contract has been awarded by the city to H. D. A. GREBE, Barrington, for watermain extensions, at $5,922.

✚Winchester, Ill.—Bids were received on Oct. 6 by the Commissioners of Big Swan Drainage and Levee District for furnishing machinery and equipment and installing the same for the pumping station of the district. The contract we are officially advised, has been awarded to W. A. DAY & CO., 1537 First National Bank Bldg., Chicago, Ill., at $24,900. C. W. Brown, Scott Block, Jacksonville, Ill., is Engr.

✚Chenoa, Ill.—Bids were received on Oct. 7 by the city for the construction of a concrete circular reservoir. The contract has been awarded to C. C. BOWMAN, Bloomington, Ill., at $6,800. Melluisk & Broykill are Engrs., Bloomington.

***South Wayne, Wis.**—Bids will be received by the Village Board until 7.30 p. m., Oct. 24, for furnishing all material and labor for the construction of a complete system of waterworks. The system will comprise pumping machinery, a deep well, tower and tank, power house and a distribution system approximately 6,000 ft. long. Advertised last week. B. W. Hicks is Engr., Vulcan, Mich.

Mount Vernon, Iowa.—We are officially advised that the city will construct a reinforced concrete storage reservoir. The Iowa Engineering Co., is Engr., Clinton, Iowa.

Indianola, Iowa.—Bids [illegible] be received until 7 p. m., Oct. [illegible] by W. A. Graves, City Clk., for the [illegible]struction of a 750,000-gallon concr[illegible] reservoir, 150 × 50 × 14 ft. Noted on [illegible] 12.

Perry, Iowa.—The Coun[illegible] considering the installation of [illegible] mains in Dillenbeck Addition.

Ada, Minn.—The town [illegible] voted to issue $5,000 of bonds for [illegible]-works.

Preston, Minn.—The Co[illegible] has decided to extend the water [illegible].

St. Paul, Minn.—The City [illegible]gineer is preparing plans for a pe[illegible] cement platform at Centerv[illegible] for the construction of 1,000 ft. of [illegible] near Lake Vadnais, and 2,100 ft [illegible] Centerville Lake, and for a [illegible] main from Front St. to the high-[illegible]vice reservoir.

✚Syracuse, Kan.—The [illegible] has been awarded to the TONK[illegible] CONSTRUCTION CO of Tonkaw[illegible] Okla., by the city, for the constructi[illegible] a complete water and light syste[illegible] $35,010. The J. S. Worley Co., Rel[illegible] Bldg., Kansas City, Mo., is Engr. [illegible] were opened on Oct. 4.

Hiawatha, Kan.—Bids will be received until 1 p. m., Oct. 25, by the City Clerk for the extension of the present water-works system. Tutt[illegible] & Pipe are Engrs., Shubert Theater Bldg., Kansas City, Mo.

Valley Falls, Kan.—The citizens have voted to issue $35,000 of bonds for the installation of a water-works system. Burns & McDonnell are Consult Engrs., Scarritt Bldg., Kansas City, Mo.

✚Omaha, Neb.—The contract has been awarded to the KATZ CONSTRUCTION CO., for the construction of a 14-in. main to the Nebraska School for The Deaf, at $11,500.

The city has ordered plans prepared for a 48-in. main from the Florence pumping plant to the city.

✚Steinauer, Neb.—The contract for the construction of the water-works system here has been awarded to the COOK CONSTRUCTION CO., of Des Moines, Iowa, at $6,598. Bids were received on Oct. 5.

✚Upland, Neb.—Contracts for the construction of the water-works system here have been awarded as follows: Engine, tank and pump to FAIRBANKS, MORSE CO., Omaha; distributing system, to L. P. STRAYER, of Palisade, Neb. Cost, $10,225. The Alamo Engine & Supply Co., is Engr., Omaha, Neb.

Utica, Neb.—We are officially advised that bids will be asked in two or three weeks for the construction of the water-works system, including about 12,000 ft. of main, gas engine, etc., and elevated tank. Estimated cost, $15,000. George Odell is Engr., Omaha, Neb.

✚Sioux Falls, S. Dak.—The contract for the construction of the proposed new well has been awarded by the city to FRASER & DANFORTH, St. Paul, Minn., at $11,500, the sum of $300 to be deducted if gravel screens are not used.

Princeton, Mo.—Rollins & Westover, Consult. Engrs., Beals Bldg., Kansas City, Mo., will prepare plans for water-works and sewer improvements. Estimated cost, $7,000.

✚St. Louis, Mo.—A contract for 3,000 reinforced concrete meter boxes for the Water Department, has been awarded by the Supply Commission to the GEORGE G. PRENDERGAST CO., Chemical Bldg., St. Louis at $4.85 each. Other bidders were: Frank P. Fay, $5.30; Modern Cement Products Co., $5.50.

Marked Tree, Ark.—Bids will be received until Oct. 20 by the city for constructing a water-works system, including pumping plant and tank, and a system of combined sewers for Water and Sewer Improvement District No. 1. J. A. Wright is Engr., Marked Tree.

***San Antonio, Tex.**—The Medina Irrigation Co., 520 East Houston St., San Antonio, announces that the opening of bids for constructing the West Canal and subsidiary structures will be postponed ten days from Oct. 20. Bids on the work as previously advertised will be received by the Medina Irrigation Co., until 3 p. m., Oct. 30.

Bristow, Okla.—The citizens have voted to issue $5,000 of bonds for extensions to the water system.

✚Grove, Okla.—The city has awarded the contract to F. R. STONE, of Lima, Ohio, for constructing the water-works and electric-light plant, including power house and pumping station at $35,000. The Western Engineering Co., is Engr., Oklahoma City, Okla.

Okmulgee, Okla.—The City Council is considering an issue of $6,000 of bonds for improvements to the water system.

Westville, Okla.—The city has voted $29,500 of bonds for the installation of water-works.

***Muskogee, Okla.**—No bids were submitted to the city on Oct. 5 for the construction of the 54-in. intake, to be laid across the Arkansas River and up the head of the Grand River, and concrete inlet tower. Charles Wheeler is City Clk.

Loveland, Colo.—The Louden Ditch Co., it is reported, is considering the construction of a reservoir. W. H. Mehaffy, Loveland, is interested.

Boulder, Colo.—The city has sold bonds for $125,000 for completing the Silver Lake and Camp Albion water projects.

Cross, Utah.—The Reservoir & Pipe Line Co. of Cross, Davis County, has been incorporated with a capital of

$10,000 with John E. Hatch, Pres.; John P. Benson, Vice-Pres.; Alfred E. Fisher, Secy., and John P. Benson, Treas.

Santaquin, Utah.—The citizens on Sept. 30, voted to issue additional bonds for the installation of a water-works system. Noted on Sept. 21.

Salt Lake City, Utah.—The Delta Land & Water Co., Judge Bldg., Salt Lake City; the Melville Irrigation Co., and the Desert Irrigation Co., owners of the Sevier Bridge dam and reservoir in Juab County, Utah, will strengthen the dam by putting in place about 200,000 cu. yds. of earth fill. It is probable that the hydraulic process will be used. Work will start soon, it is reported.

Elma, Wash.—The citizens have voted in favor of issuing $10,000 of bonds for the extension of the water system. Noted on Aug. 24.

Seattle, Wash.—The lowest bid that has been received by the Board of Public Works for water mains in 28th Ave. N. W., and other streets was that of the Ferguson-Colt Co., 423 Arcade Annex, Seattle, at $14,127. C. B. Bagley is Secy. Bd.

Granger, Wash.—N. W. Avery, Town Engr., will prepare plans and specifications for the installation of a water-works plant.

Gresham, Ore.—Louis C. Kelsey, Consult Engr., Portland, Ore., has completed plans for the installation of the water-works system here. Estimated cost, $20,000. Noted on Sept. 28.

+Tulare, Cal.—The HUNT-MIRT CO., 151 Second St., San Francisco, Cal., has been awarded the contract by the Tulare County Power Co. for the construction of a 3,000-HP. steam turbine plant for irrigation purposes.

Tulare, Cal.—On Oct. 2 the Board of Trustees engaged Sloan & Robson, Consult. Engrs., Nevada Bank Bldg., San Francisco, Cal., to estimate the value of the plant of the Tulare Water Works Co., and also to prepare plans and specifications showing in detail the estimated cost of the proposed municipal water-works system. Noted on Oct. 12.

Ettiwanda, Cal.—Allin Bros., Engrs., Kendall Bldg., Pasadena, Cal., are preparing plans and specifications for a cement lined submerged reservoir of 3,000,000 gallons capacity; also for a pipe system to include twelve miles of 4, 6 and 8-in. steel riveted pipe, to be constructed here for the Arrowhead Realty Co, 195 East Colorado St., Pasadena.

+Los Angeles, Cal.—Parkinson & Bergstrom, Archs., Security Bldg., Los Angeles, have awarded a contract to A. C. DAVIS, of San Francisco, for installing a filtering system in the Los Angeles Athletic Club's building on West Seventh St., at $7,500.

+San Francisco, Cal.—The Board of Public Works on Sept. 9 awarded the contract to the COAST IMPROVEMENT CO., 68 Post St., San Francisco, for completing the laying of the pipe for the high-pressure auxiliary fire-protection system in the district bounded by Eleventh, Mission, 29th and Castro Sts., at $113,634.

Hawthorne, Cal. — Mayberry & Parker, Archs., 689 Pacific Electric Bldg., Los Angeles, Cal., have been commissioned by the Hawthorne Improvement Company to draw plans for a reinforced concrete water tank to be built at Hawthorne, as an addition to the water-works of the town of Hawthorne. It will be 80 ft. in diameter, 15 ft. high, of 565,000 gallons capacity, frame roof construction and composition roofing.

+*Manteca, Cal.—We are officially advised that the contract was awarded on Oct. 11 by the San Joaquin Irrigation District and the Oakdale Irrigation District to JAMES A. GREEN & CO., 226 La Salle St., Chicago, Ill., for Contract 2 for the enlargement of the irrigation canal in Stanislaus River Canyon, and Contract 2b for the long tunnel giving exit from the canyon. The total amount of Contract 2a is about $384,000 and of Contract 2b about $254,000. The South San Joaquin Irrigation District, acting alone, rejected the bids of James A. Green & Co. for Contracts Nos. 3, 4 and 5. Contract No. 1 for diversion dam at Goodwin Damsite and Contract No. 6 for about six miles of canal were let to T. K. Beard, Modesto, Cal., about two months ago and are now under construction. Edwin Duryea is Ch. Engr., Humboldt Bank Bldg., San Francisco, Cal.

+Hull, Que.—The contract has been awarded to RISSON & CARRIERE, of Hull, for water-works improvements here.

Hamilton, Ont.—The city is considering water-works improvements. It is planned to spend about $500,000 for the work within the next two years.

Sandwich, Ont.—The Town Council has sold bonds for the construction of extending the water system.

Regina, Sask.—The citizens on Oct. 3 voted by laws for $897,000 for improvements, $150,000 for a trunk sewer and $150,000 for water-works.

Saskatoon, Sask.—Plans are being prepared for an intake to supply the 4,000,000-gallon filtration plant. G. T. Clark is City Engr.

Victoria, B. C.—Bids will be received until 4 p. m., Oct. 27, by W. W. Northcott, Purchasing Agt., for the following: Gate valves, pig lead, lead pipe, galvanized pipe, brass goods and galvanized fittings.

SEWERAGE.

(**Denotes that this work is advertised in Engineering News.*)

New Bedford, Mass.—Bids will be received by the Mayor and Aldermen and Committee on Roads, Bridges and Sewers, until 8 p. m., Oct. 24, for laying c. i. pipe with the necessary special castings for the outfall in Buzzards Bay of the Intercepting Sewer System. William F. Williams, is City Engr.

Boston, Mass.—Bids will be received until Oct. 20 by the Public Works Department for the construction of sewage works in Breed, Gladstone and Lubes Sts., East Boston. Louis K. Rourke is Comr. Pub. Wks.

+Syracuse, N. Y.—Contracts for constructing cement sidewalks have been awarded to the EAGLE PAVING CO., and BLANCH GAFFEY, Syracuse. Approximate cost, $9,000.

+Yonkers, N. Y.—On Oct. 16, the Board Contract and Supply awarded to JOSEPH L. CUOZZA, 176 Oak St., a contract for constructing a sewer in Bronx River Road, from Emmons Pl. to Wakefield Ave., and in Wakefield Ave. to Bronx Valley sewer, at $16,643. Other bidders: O'Rourke Contracting Co., $26,000; Frank Cianfaglione, $35,800; Canepi & Nolan, $29,800; Kelly & Hanifin, $17,498; E. T. Eggleston, $23,478; Nicholas Mangini, $17,000.

Glen Cove (L. I.), N. Y.—A sewer system to cost $150,000 will be installed in this village. The Town Board has authorized a bond issue not to exceed that amount. Work will not begin until spring, but the contract will be awarded this fall. Francis L. Hine, Pres. First National Bank, New York, is interested.

+Newburgh, N. Y.—The Common Council has awarded to MICHAEL R. SPINO, Fishkill Landing, at $10,440, the contract to complete the sewer in Lake St., left unfinished by Pietro Luciano. The only other bidder was Abner M. Harper, Newburgh, at $10,585.

New York, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., Oct. 25, for constructing sewers in various streets.

Newark, N. J.—Bids will be received by the Board of Street and Water Commissioners until 3.15 p. m., Oct. 19, for constructing sewers in Ferry and Christie Sts., and Bonykamper Ave. The work requires 1,210 ft. of 30-in. reinforced-concrete pipe sewer, 310 ft. of 24-in. double strength vitrified salt glazed pipe sewer, 70 ft. of 18-in. double strength vitrified salt glazed pipe sewer, 120 ft. of 6-in. iron pipe house connections, 550 ft. of vitrified pipe house connections, 11 manholes with standard heads and covers complete, 5 basins with concrete heads and sills and connecting chute complete.

***Ligonier, Pa.**—Bids will be received by the Ligonier Borough Council at the Borough office, until 8 p. m., Nov. 2, for furnishing the materials and constructing a sewerage system, sewage pumping plant and sewage disposal plant. The system includes 32,380 ft. of 6 to 15-in. vitrified pipe sewers with appurtenances. The pumping plant will consist of two 4 × 5-in. centrifugal pumps electrically driven and controlled, or two 250-gal. per minute sewage ejectors with air compressors and motors, and a receiving chamber, pump pit, building, etc. The purification plant will consist of sedimentation tanks, sprinkling filters, sludge bed, etc., designed to treat 200,000 gallons of sewage. Ira F. Brant is Secy. and F. H. Shaw, Engr. Advertised last week.

Duquesne, Pa.—Plans are being prepared by Leo Hudson, McKeesport, Pa., for a sewage disposal system for Duquesne.

Union Springs, Ala.—We are officially advised that plans are being prepared by Willburn Hill, Design Engr., Attalla, Ala., for a sanitary sewerage system and water-works improvement for Union Springs. Estimated cost, $30,000.

Amory, Miss.—See item under Water Supply-Irrigation.

***Louisville, Ky.**—Bids will be received by the Commissioners of Sewerage until noon, Oct. 20, for constructing 32d St. and Dumesnil St. Sewer, Contract No. 85. The work consists mainly of the construction of 960 ft. of 66-in. 494 ft. of 60-in. and 851 ft. of 30-in. plain concrete sewer; 1,454 ft. of earth excavation, depth of cut 19 to 23.5 ft.; 851 ft. of earth excavation, depth of cut 2.5 to 11.5 ft.; 1,086 cu. yds. concrete and 500 ft. of 8-in. underdrain. P. L. Atherton is Chn. Comrs. Advertised last week.

+Columbus, Ohio.—We are officially advised that the contract for constructing the Milo Trunk Sewer has been awarded to H. E. HUNT, Jackson, Ohio. The work consists of: 3,839 ft. of 60-in., 327 ft. of 54-in., 592 ft. of 36-in., 783 ft. of 24-in., 370 ft. of 18-in., 140 ft. of 15-in. sewer; 29 manholes; 84 6-in. inlets; 336 ft. of 6-in. penstocks, and considerable repaving. Noted Sept. 21.

+Toledo, Ohio.—We are officially advised that the contract for constructing Main Sewer No. 1119 has been awarded to ALBERT GRYZBOWSKI, at approximately $9,935. Noted Sept. 14.

Terre Haute, Ind.—Bids for sewer construction were received Oct. 9, as follows:

Eighth Ave. and Plum St.: Meredith & Ehrler, $8,272; W. H. Harris, $8,586. Estimate, $8,120.

Third Ave., 13th to 25th Sts.: Robert H. Savage, $6,842; W. H. Harris, $6,955; W. C. Dorsey, $7,625; M. McBride & Son, $7,816; J. P. Welch, $7,842; P. O'Leary & Son, $8,065. Estimate, $7,540.

Washington Ave., 14th to 21st Sts.: Routzahn & Yopp, $5,672; W. H. Harris, $6,135. Estimate, $6,000.

10th St., Oak to Hulman Sts.: Robert H. Savage, $6,426; M. McBride & Son, $6,965; W. C. Dorsey, $7,189; Routzahn & Yopp, $7,283; J. B. Welch, $7,642; Foulkes Construction Co., $7,726; P. O'Leary, $7,788; Meredith & Ehrler, $7,931. Estimate, $7,000.

Don M. Roberts is City Engr.

Bloomington, Ill.—Bids will be received until Oct. 19, for constructing 10 and 12-in. pipe sewers in various streets. H. E. Rhoades is City Clk.

+Wauwatosa, Wis.—The Board of County Commissioners has awarded the contract for constructing sewers on each side of the Grand Ave. Viaduct in the town of Wauwatosa to GEORGE E. ZIMMERMANN, at $13,096. There were five bids submitted, the lowest being that of R. W. Forrestal at $13,090. Noted Sept. 14.

Mount Pleasant, Iowa.—Plans are being prepared for a sewer system, estimated to cost $30,000.

+Mason City, Iowa.—We are officially advised that bids for constructing two sewage disposal plants were received Oct. 9, as follows: YOUNGLOVE CONSTRUCTION CO., Sioux City, Iowa, Plant A, $5,689, Plant B, $23,790 (awarded contract); Cook Construction Co., Des Moines, Iowa, A $9,476, B $37,280; Edmund T. Sykes, Minneapolis, A $13,274, B $30,976. Noted Sept. 28.

+Hutchinson, Minn.—A contract for constructing an extension to the sewer system has been awarded to FRASER & DANFORTH, Rochester, Minn., at $5,480.

Omaha, Neb.—Bids will be received at the office of Geo. W. Craig, City Engr., until 2 p. m., Oct. 23, for the construction of sewers, flush tanks and manholes on 15th and Bancroft Sts., at Miller Park, 24th St., on north line of Florence Boulevard, south along the center of 24th St., on Kansas Ave., thence reconstructing 10-in. sewer along the center of 24th St. to the center of Himebaugh Ave. The pipe ranges from 12 to 30 ins.

Madison, S. Dak.—We are officially advised that bids for constructing a sewerage disposal plant were received Oct. 5, as follows: Fraser & Danforth, $17,964; Meeker & Dobson, $16,376; G. S. Redmon, $16,733; C. H. Atkinson, $17,968; E. T. Webster, $17,815; Younglove Construction Co., $18,408; Roberts & Son, $16,349; Cook Construction Co., $16,542. All bids were rejected and the work will probably be readvertised in January. William Rae is City Audr. Noted Sept. 14.

+St. Joseph, Mo.—The contract for deepening Brown's Branch, to drain the district lying south and southeast of the Stockyards, has been awarded to J. F. BUIS at 33½ cts. per cu. yd. for excavating. Total cost, $5,700.

Marked Tree, Ark.—Bids will be received at the office of the Bank of Marked Tree until 10 a. m., Oct. 20, for constructing a sewer system in Improvement District No. 1. Plans and specifications may be obtained from J. A. Wright, Engr.

Waco, Tex.—We are officially advised that bids will be asked in about two weeks for constructing sanitary and storm sewers, estimated to cost $90,000. Stephen Turner is City Engr.

Pryor Creek, Okla.—Bids will be received by the City of Pryor Creek until about Nov. 15, for sewer construction to cost about $10,000. Plans and specifications are being prepared by the Benham Engineering Co., American National Bank Bldg., Oklahoma City.

Boulder, Colo.—Leonard Metcalf, Boston, Mass., is preparing plans for a drainage and sewer system.

Pueblo, Colo.—Plans have been prepared for constructing sewers estimated to cost $35,000. William Peach is City Engr.

Portland, Ore.—The City Engineer has prepared four sets of plans for a sewer system in Westmoreland, two plans for the main conduit and two for laterals. Estimated cost, $73,487.

Longbeach, Cal.—A special election will be held soon for the purpose of voting $350,000 for the construction of a main and supplementary outfall sewer system.

+Tracy, Cal.—The contract for constructing a sewer system has been awarded to C. D. VINCENT, San Francisco, Cal., at $21,223. Noted Sept. 21.

Regina, Sask.—See item under Water Supply-Irrigation.

GARBAGE DISPOSAL.

Hoboken, N. J.—Bids have been received by the Common Council as follows for the removal of ashes and garbage for (a) one year, (b) three years, (c) five years: James Cunningham, (c) $56,000; Philip Lindner, (a) $12,750, (b) $13,650 per year, (c) $14,000 per year; Hudson Contracting Co., (a) $16,490, (b) $31,988, (c) $52,980; Peter Puluso, (a) $11,500, (b) $35,000, (c) $60,000.

Jersey City, N. J.—Bids have been submitted as follows to the Street and Water Board for the removal of ashes and garbage: For collection of ashes, paper and garbage without separation, O'Reilly Bros., $60,000; Henry Byrne, 392 Mercer St., Jersey City, $54,975; for the collection of ashes, paper and garbage with separation, O'Reilly Bros., $63,000; Henry Byrne, $61,000.

Racine, Wis.—The Common Council has selected the site for the new proposed garbage plant near the round house and the Case T. M. Co.'s lumber yard. The style and cost of the incinerator will be decided upon soon. W. S. Goodland is Mayor.

Newman, Cal.—The City Council is considering the installation of an incinerator.

San Francisco, Cal.—The Bureau of Engineering is preparing plans for the construction of two reinforced-concrete chimneys, one for the incinerating plant to be erected in the North Beach District and one for the plant to be erected in the Islais Creek District; for the construction of one incinerating plant building in the Patrero District; one incinerating plant building in the North Beach District, and one incinerating plant building in the Islais Creek District. Marsden Manson is City Engr.

STREETS AND ROADS.

(**Denotes that this work is advertised in Engineering News.*)

+Hardwick, Mass.—The contract for building a section of state road between Hardwick and Gilbertville, has been awarded to CHARLES E. HORNE, Millbury, at $11,000.

+Boston, Mass.—The contract for the construction of a macadam roadway in Wallingford Road, Brighton, has been awarded to the ROWE CONTRACTING CO., at $12,592. Other bids were: John Kelly Co., $13,178; John McCourt & Co., $13,742.

Boston, Mass.—Bids will be received until Oct. 23, by the Public Works Department for the construction of macadam roadways in Floyd St., Dorchester, and in Stratford St., West Roxbury, and for granite block paving in Southampton St., Roxbury. Louis K. Rourke is Comr. Pub. Wks.

Lawrence, Mass.—The Aldermen have authorized the paving of South Broadway from the Falls Bridge to the South Canal Bridge, with granite block.

Hartford, Conn.—Bids for state road work were received by James H. MacDonald, State Highway Comr., Oct. 11, as follows:

Town of Wolcott, 14,150 lin. ft. of heavy grading, and alternate bids for gravel construction, on the Waterbury Turnpike, including thirty-two tile culverts and three concrete slab culverts, 14-ft., 20-ft. and 30-ft. span respectively: (a) grading excepting from Station 74, 50 to 84, (b) gravel surfacing, (c) grading between Stations 74, 50 and 84, (d) gravel between 74, 50 and 84, (e) telford per lin. ft., (f) rubble drain per lin. ft. John F. Knapp, Belden Hill, Conn., (a) $19,900, (b) 25 cts. per lin. ft. extra, (c) $5,000, (e) 60 cts., (f) 60 cts.; Piersen Engineering & Construction Co., Bristol, Conn., (a) $1.35 per lin. ft., (b) $1.50, (c) $5,800, (d) $6,000, (e) 65 cts., (f) 80 cts.; A. W. Byrne Co., Hartford, Conn., (a) $18,507, (b) $1.40, (c) $6,135, (d) $6.45, (e) 90 cts., (f) 90 cts.; Caesar A. Rossi, Torrington, Conn., (a) $23,000, (b) $24,500, (c) $3,400, (d) $4,200, (e) 80 cts., (f) $1; E. W. Peck, Stratford, Conn., (a) $29,858, (b) $2.85 per lin. ft., (c) $7,525, (d) $8.60 per lin. ft., (e) $1.25, (f) $1; Joseph D'Aloia, Cromwell, Conn., (a) $13,600, (b) $16,230, (c) $4,583, (d) $4,793, (e) 85 cts., (f) 75 cts.; A. Brazos & Sons, Middletown, Conn., (a) $31,367, (b) 50 cts. per lin. ft., extra, (c) $3,590, (d) 50 cts. per lin. ft. extra, (e) 40 cts., (f) $1; Goodman & Trumbull, Litchfield, Conn., (a) $22,926, (b) $4,000 extra, (c) $5,924, (d) $400 extra, (e) 90 cts., (f) $1; Samuel Wilson, Wolcott, Conn., (a) $20,142, (b) $1.51 per lin. ft., (c) $7,011, (d) $7.38 per lin. ft., (e) 90 cts., (f) 95 cts.; Jones & Porcaro, Willimantic, Conn., (a) $19,800, (b) $1.60 per lin. ft., (c) $6,000, (d) $7 per lin. ft., (e) $2.25, (e) $1; F. Arrigoni & Bro., Middletown, Conn., (a) $31,000, (b) $2.85, (c) $2.20 per lin. ft., (d) $2.85 per lin. ft., (e) 60 cts., (f) $1.25; Ahern Brothers, Willimantic, Conn., (a) $47,328, (b) $4.04 per lin ft., (c) $8,532, (d) $9.45 per lin. ft., (e) 60 cts., (f) 95 cts.; A. Vito, Thompson, Conn., (a) $23,750, (b) $10,500 extra, (e) 50 cts., (f) $1.25; O. T. Benedict, Pittsfield, Mass., (a) $25,900, (b) $29,900, (c) $5,500, (d) $6,000, (e) 75 cts., (f) $1; Leonardo Suzio, Meriden, Conn., (a) $25,419, (b) $1 per lin. ft. extra, (c) $7,957, (d) $1 per lin. ft. extra, (e) 75 cts., (f) $1; B. D. Pierce, Jr., Co., Bridgeport, Conn., (a) $33,600, (b) $1 per lin. ft. extra, (c) $10,000, (d) $1 per lin. ft. extra, (e) $1, (f) $1.

Town of Plymouth, 10,950 lin. ft. macadam on the Tarryville Road: Piersen Engineering & Construction Co., Bristol, Conn., $1.40 per lin. ft. for macadam, $2.15 for telford, $1 for rubble drain, 90 cts. per sq. yd. for cobble gutters; A. Brazos & Sons, Middletown, Conn., $1.69, $2.19, $1 and 70 cts.; E. W. Peck, Stratford, Conn., $2.15, $3.65, $1.25, 75 cts.; John de Michiel & Bro., Torrington Conn., $1.64, $2.34, $1 and 65 cts.; Lane Construction Corp., Meriden, Conn., $1.54, $2.14, $1 and 65 cts.; Caesar A. Rossi, Torrington, Conn., $1.84, $2.84, $1 and 80 cts.; Ahern Bros., Willimantic, Conn., $1.54, $2.14, 95 cts., 70 cts.; Mascetti & Holley, Torrington, Conn., $2.25, $3.25, $1, $1.

Town of Barkhamsted, 9,564 lin. ft. heavy grading, including hardening surface and telford, on the Winsted Road. This work also calls for two concrete slab culverts. Mascetti & Holley, Torrington, Conn., $15,900 for the entire grading. $1 per lin. ft. for tel-

ford, $1 per lin. ft. for rubble drain; A. Brazos & Sons, Middletown, Conn., $19,843, 50 cts., $1; John de Michiel & Bro., Torrington, Conn., $16,500, 65 cts., $1; Caesar A. Rossi, Torrington, Conn., $15,119, $1, $1; Goodman & Trumbull, Litchfield, Conn., $17,893, $1, $1; A. Vito Corp, Thompson, Conn.,($18,240, 60 cts., $1.25.

City of New Haven, 5,403 lin. ft. macadam-telford on Whaley Ave. C. W. Blakeslee & Sons, New Haven, Conn., $1.90 per lin ft. for macadam, $2.32 for telford, $2,700 for drainage system; Robert D. Daley, New Haven, Conn., $1.50, $2.20, $2,400.

Town of Southington, 6,009 lin. ft. heavy grading, including two concrete slab culverts, on the Waterbury Turnpike: Jonn F. Knapp, Belden Hill, Conn., $13,700 for grading, 60 cts. per lin. ft. extra for telford, 60 cts. for rubble drain, 75 cts. per sq. yd. for cobble gutters; Leonardo Suzio, Meriden, Conn., $25,120, 75 cts., $1 and 40 cts.; Joseph D'Aloia, Cromwell, Conn., $14,500, 90 cts., 85 cts., 45 cts.; A. Brazos & Sons, Middletown, Conn., $20,840, 50 cts., $1 and 70 cts.; Caesar A. Rossi, Torrington, Conn., $20,500, $1, $1 and 60 cts.; Goodman & Trumbull, Litchfield, Conn., $29,872, $1, $1 and 60 cts.; F. Arrigoni & Bro., Middletown, Conn., $32,500, 65 cts., $1.25, 75 cts.; Ahern Bros., Willimantic, Conn., $38,400, 60 cts., 95 cts., 70 cts.; A. Vito Corp., Thompson, Conn., $23,000, $1, $1.25, 75 cts.; Piersen Engineering & Construction Corp., Bristol, Conn., $20,150, 65 cts., 80 cts., 75 cts.; Jones & Porcaro, Willimantic, Conn., $2.50 per lin. ft. for grading; B. D. Pierce, Jr., Co., Bridgeport, Conn., $29,948, $1, $1 and 70 cts.; O. T. Benedict, Pittsfield, Mass., $21,995, 75 cts., 95 cts., 75 cts.

Town of Somers, 7,860 lin. ft. heavy graded work, macadam or gravel surface, on the Stafford Turnpike: A. D. Bridge's Sons, Inc., Hazardville, Conn., $3.53 per lin. ft. for macadam, $2.77 per lin. ft. for gravel, 80 cts. per lin. ft. for telford, $1 for rubble drain; Clayton T. Curtis, Glastonbury, Conn., $4.38, $3.45, 62 cts., $1.10; Caesar A. Rossi, Torrington, Conn., $4, $3.80, 75 cts., $1; Ahern Brothers, Willimantic, Conn., $4.37, $4.57, 60 cts., 95 cts.; A. Vito Corp., Thompson, Conn., $3.65 for macadam, 55 cts. for telford, $1.25 for rubble drain—no figures for gravel; O. T. Benedict, Pittsfield, Mass., $4.19, $3.75, 75 cts., $1.

✚**Norwalk, Conn.**—We are officially advised that the contract for constructing a section of macadam road has been awarded to JOS. A. McELROY, at $3.21 per sq. yd. for United States Wood Block. Noted Sept. 14.

Yonkers, N. Y.—Bids for street improvement were received Oct. 16, by the Board of Contract and Supply, as follows: Repaving Wells Ave., from River St., to Warburton Ave., W. J. Watson Contracting Co., granite block, $8,778, and 20 days at $10 a day; Kearns & Hart, granite block, $8,198 and 25 days at $10; sheet asphalt, $5,176 and 15 days; Hassam Paving Paving Co., compressed concrete, $6,426, and 20 days at $10. Referred to the Common Council, to make selection of pavement.

✚Regulating and grading Springer Ave., from Bronx River Road to Vandenburgh Ave., F. Cianfaglione, $11,900; O'Rourke Contracting Co., $13,423; Canepi & Nolan, $14,850; N. Mangini, $14,100; James Corbalis, $18,837; Kelly & Hanifin, $13,941; Fred E. Gross, $14,878; W. J. Watson Co., $23,783; R. A. Destrange, $15,460; JOSEPH L. CUOZZA, 176 Oak St., $10,975 (awarded contract).

Curbing and guttering Alexander Ave., from McLean to Wakefield Ave., O'Rourke Contracting Co., $5,825; Cianfaglione, $6,512; R. A. Destrange, $6,100; Kelly & Hanifin, $5,648; Fred A. Gross, $6,590; Charlton & Weston, $6,377; W. J. Watson, $5,978; JOSEPH L. CUOZZA, $5,371 (awarded contract).

✚Curbing and guttering Glover Ave. from McLean to Wakefield Aves., O'Rourke Contracting Co., $5,920; F. Cianfaglione, $6,559; R. A. Destrange, $6,440; KELLY & HANIFIN, $5,728 (awarded contract); Fred A. Gross, $6,298; Charlton & Weston, $6,357; Watson & Co., $6,114; Joseph L. Cuozza, $5,967.

*✚**Cohoes, N. Y.**—We are officially advised that bids for paving Van Rensselaer St., from Pine to Oneida Sts., were received Oct. 3, as follows: THOMAS F. GRATTA, $9,151 (awarded contract); J. Dooley & Son, $9,989; Muldern Bros., $9,757; T. A. Kerwin, $9,384. The work consists of 2,515 sq. yds. of paving and 1,237 lin. ft. of granite curb. George T. Bolton is City Engr. Noted Sept. 14.

Buffalo, N. Y.—Bids will be received by Francis G. Ward, Comr. Pub. Wks., until 11 a. m., Oct. 25, for paving various streets.

New York, N. Y.—Bids will be received by Alfred E. Steers, Pres. Boro. Brooklyn, until 11 a. m., Oct. 25, for regulating, grading, curbing and laying sidewalks on East Eighth St., from Church Ave. to Ave. C., and for fencing vacant lots on the north side of West Ninth St., between Hamilton Ave. and Court St., and on various other streets in the Borough of Brooklyn.

New York, N. Y.—Bids will be received by Charles B. Stover, Pres. Park Board, until 3 p. m., Oct. 26, for constructing asphalt tile walks along the south Lake Drive in Prospect Park, Borough of Brooklyn.

New York, N. Y.—We are officially advised that the lowest bid received Oct. 5 by Charles B. Stover, Pres. Dept. of Parks, fo: rebuilding and widening City Island Road was submitted by Dayton Hodges at $21,266. Noted Sept. 28.

***Collingswood, N. J.**—Bids will be received at the Council Chamber in the Borough of Collingswood, until 8 p. m., Nov. 3, for constructing about 32,000 sq. yds. of macadam pavement. T. W. Madden is Chn. of Highway Committee, and J. J. Albertson, Boro. Engr.

Kearney Junction (Newark post-office), **N. J.**—Bids for paving Kearney Ave. with bitulithic, have been received by the Town Council as follows: Van Keuren & Son, $60,281; Newark Paving Co., $61,020; Standard Bitulithic Co., $62,634; J. F. Shanley Co., $64,775.

Haddonfield, N. J.—We are officially advised that bids for constructing 50,000 lin. ft. of stone and cement curbing were received Oct. 2, as follows: (a) concrete, (b) stone, (c) corners: John E. Foley, (a) 35 cts., (b) 54 cts.; Le Cato Construction Co., (a) 33 cts., (b) 59 cts., (c) $3.37; W. G. Rutherford, (a) 32⅝ cts., (b) 47 cts., (c) $4.50; Otto Paving Co., (a) 32 cts., (b) 55 cts., (c) $4.30; Gifford Construction Co., (a) 37 cts., (b) 53 cts., (c) $5; F. T. Holloway, (a) 38 cts., (b) 44 cts., (c) $1.25. Allen Clymer is Boro. Clk. Noted Sept. 28.

✚**Harrison, N. J.**—Bids for paving Essex St., from Fourth to Fifth St., have been received as follows: J. F. SHANLEY CO., $5,009 (awarded contract); Van Keuren & Son, $5,013; Standard Bitulithic Co., $5,101.

Newark, N. J.—We are officially advised that bids for paving have been received by the Board of Street and Water Commissioners, as follows, (a) Frelinghuysen Ave., from Dayton St. to the Essex-Union County line; (b) Johnson Ave., from Watson Ave., 315 ft. south; (c) Tichenor Lane, from Murray to Parkhurst St.; (d) Kipp St., from Rose St. to Waverly Ave.: Jersey Paving Corporation, (a) $89,209, (b) $1,458, (c) $5,364, (d) $3,705; P. & P. Jannarone, (a) $89,648, (b) $1,554; J. F. Shanley Co., (a) $90,003, (b) $5,408; Newark Paving Co., (a) $91,082, (b) $1,712, (c) $5,377, (d) $3,568; Van Keuren & Son, (a) $92,205, (b) $2,030, (c) $5,714; O'Gara & McGuire, (c) $5,403, (d) $3,460; McMahon Construction Co., (c) $5,570, (d) $3,443. Noted Sept. 28.

✚**Carbondale, Pa.**—The cantract for paving Pike St., from South Main to Sand St., with vitrified brick paving block, has been awarded to JOHN BOOTH, Carbondale. Noted Sept. 28.

Pittston, Pa.—We are officially advised that bids will be received by James Norris, County Controller, until Nov. 13, for constructing bituminous macadam pavement. Estimated cost, $210,000. Harry Myers, Pittston, is Design. Engr.

Swissvale, Pa.—Bids will be received by E. M. Watt, Supt. Pub. Wks., until 7 p. m., Oct. 21, for grading, paving and curbing Palmer St., from Irvine Ave. to Cassie St.

Camp Hill, Pa.—Bids will be received by Secy. of the Borough of Camp Hill until 7 p. m., Oct. 25, for grading Logan St. Plans and specifications can be seen at the office of J. W. Milhouse, Chn. Highway Com.

Wilkinsburg, Pa.—Bids will be received at the office of Frease & Sperling, Boro. Engrs., Wilkinsburg, until 3 p. m., Oct. 23, for grading, curbing and paving Medicine way from end of present pavement to South Ave., and Hammett Way, from Center to Jeannette St.

✚**Wilmington, Del.**—A contract for paving has been awarded to the HARRIGAN CONSTRUCTION CO., Wilmington, at $29,757.

✚**Dover, Del.**—The Levy Court has awarded the contract for the Woodland Beach Boulevard, connecting the Delaware Bay resort with the mainland, to JAMES R. MOTT at $10,850.

Baltimore, Md.—We are officially advised that bids will be asked within two weeks for resurfacing about 1¼ miles of street. The resurfacing will be done with sheet asphalt over cobble already laid. H. K. McKay is City Engr.

Grafton, W. Va.—Bids will be received by the County Court of Taylor County until 1 p. m., Oct. 21, for constructing the Zinn Road, about 2,982 ft. long, and a road leading through the Armstrong farm. I. J. Thomas is Engr.

Piedmont, W. Va.—Bids will be received by the Street Committee until 6 p. m., Oct. 21, for grading and paving Fairview St. Plans and specifications are on file with J. M. David, Town Recorder.

Pensacola, Fla.—Bids will be received by the Board of Bond Trustees until noon, Nov. 14, for grading, paving and curbing various streets. The work consists of approximately 180,000 sq. yds. of clay or shale blocks, sheet asphalt, asphalt block, bitulithic, wood block or concrete pavement, and 116,000 lin. ft. of concrete curb. John A. Merritt is Chn. of Bd.

✚**Palatka, Fla.**—We are officially advised that bids for approximately 15,000 sq. yds. brick paving 4.8 miles shell or gravel paving, and 18,000 lin. ft. curbing, were received Oct. 3, as follows, (a) brick paving, per sq. yd.; (b) granite curb, per lin. ft.; (c) concrete curb, per lin. ft.: Daniels, Lyst & Douglas, Anderson, Ind., (a) $1.26, (b) 40 cts., (c) 27 cts.; Georgia Engineering Co., Augusta, Ga., (a) $1.38, (b) 42 cts.; ALABAMA PAVING CO., (a) $1.19¾ (awarded contract), (b) 37 cts., (c) 27 cts.; H. S. JANDON ENGINEERING CO., (c) 24 cts. (awarded contract). S. C. Stallings is City Engr. Noted Sept. 14.

Camden, Ala.—Bids will be received by the Commissioners of Wilcox County, until 1 p. m., Nov. 7, for grading draining and surfacing with gravel about three miles of State-aid road: W. S. Keller, Montgomery, Ala., is State Highway Engr.

✚**Jackson, Miss.**—The City Council has awarded the contract to the SOUTHERN ASPHALT PAVING CO., Birmingham, for paving West Capitol St., from Lemon to Magnolia St., a distance of about one mile. The bid was for standard asphalt paving at $1.81 per sq. yd. The total cost will be about $30,000.

Brandon, Miss.—Bids will be received by the Highway Commission of District No. 2, Rankin County, until noon, Nov. 6, for improving about 65 miles of public roads. A sand clay surface will be used on about four or five miles. J. A. Hammack, Court House, Brandon, is Engr.

✚**Jackson, Miss.**—Press reports state that a contract for constructing vitrified brick pavements has been awarded to the ASPHALT CONSTRUCTION CO. at $40,686.

London, Tenn.—The Quarterly County Court, W. C. Cannon presiding, has voted to issue bonds for $25,000 for road improvement.

Franklin, Ky.—A bond issue of $70,000 is contemplated by the county for road work.

Louisville, Ky.—Bids will soon be asked by the Board of Public Works for reconstructing Clay St., from Jefferson St. to Broadway. Estima[illegible] cost, $7,500.

Middletown, Ohio.—The low[illegible]st bid received Oct. 2, for improving Titus Ave., was submitted by Bi[illegible] Bros., as follows: excavation, per cu. yd., [illegible]0 cts.; headers, per sq. [illegible] 35 cts.; curb and gutter, per lin. [illegible] 45 [illegible]; Townsend block, [illegible] yd., $1.63; Harris, $1.65; [illegible] politan, $1.70; inlets, reset, $3; extra concrete, per cu. yd., $2; [illegible] stone, per cu. [illegible], $1. Noted Sept. [illegible]

✚**Mt. Vernon, Ohio.**—Bids [illegible] ceived Sept. 25 by the Commissioners of Knox County for grading and macadamizing the Hilliar Township Road, as follows: GEORGE M. JACKSON, Mt. Vernon, $4,920 (awarded contract). Noted Sept. 14.

✚**Port Clinton, Ohio.**—The contract for paving Fulton St. has been awarded to F. J. RICHARDSON, Port Clinton, at $6,303.

Cadiz, Ohio.—Bids will be received at the office of the Commissioners of Harrison County, until 1 p. m., Oct. 24, for grading and macadamizing 1.31 miles of the Cadiz-Jewett road in Archer Township. Specifications, plans and profiles are on file in the office of the County Commissioners in Cadiz, and at the State Highway Department. Estimated cost of construction, $11,046.

✚**Caldwell, Ohio.**—We are officially advised that a contract for road improvement was awarded Oct. 10, to WILSON & HARPER, at $11,936. Noted Sept. 14.

✚**Cincinnati, Ohio.**—We are officially advised that the contract for improving the Burnt School House Road has been awarded to JOHN NICKERSON, Cincinnati, at $12,205. Noted Sept. 14.

Cleveland Heights, Ohio.—Bids will be received by H. H. Canfield, Vil. Clk., until noon, Nov. 7, for furnishing the material and labor necessary for the improvement of Highland Road from Mayfield Road to Euclid Heights Boulevard, and Taylor Road from Mayfield Road to Euclid Heights Boulevard.

London, Ohio.—Bids will be received by the Board of Commissioners of Madison County until noon, Oct. 30, for graveling the hill near the M. E. Church in Mt. Sterling and the levee on the Mt. Sterling and Five Points Pike. J. J. Shaffer is County Audr.

✚**Zanesville, Ohio.**—Bids were received by the Commissioners of Muskingum County, Oct. 11, for the improvement of the Dresden-Trinway Road, as follows: W. R. KNISELY, New Philadelphia, $7,440 (awarded contract); John L. Mercer, Trinway, bituminated concrete, $7,993; two course macadam, $8,390; Adams Bros., Zanesville, $8,270.

✚At the same time bids were received for the improvement of the New Concord Road, as follows: JOHN L. MERCER, Trinway, $4,498 (awarded contract); Adams Bros., Zanesville, $4,550; Springfield Construction Co., Springfield, $4,646.

Indiana Road Improvements.

Bids will be received for highway improvement in Indiana, as follows:

Nov. 3: Indianapolis, by the Commissioners of Marion County until 2 p. m., for constructing a gravel road. Albert Sahm is County Audr.

Nov. 4: Greencastle, by the Commissioners of Putnam County until 10 a. m., for constructing three macadam roads, aggregating 24,176 ft. D. V. Moffitt is County Audr.

Nov. 6: Rising Sun, by the Commissioners of Ohio County until 1 p. m., for the construction of a gravel road known as the W. P. Hanna Road in Cass Township. J. P. Hemphil is County Audr.

Brownstown, by the Commissioners of Jackson County until 1.30 p. m., for constructinw two gravel roads, aggregating 16,728 ft. H. W. Walker is County Aur.

Huntington, by the Commissioners of Huntington County, until noon, for constructing a stone road. [illegible] W. Weaver is County Audr.

English, [illegible]y the Commissioners of Crawford County, until 2 p. m., for three miles of pike road. [illegible] E. Jones is County Audr.

Decatur, by the Commissioners of Adams County, until 10 a. m., for a macadam road. H. S. Mich[illegible] is County Audr.

Rensselaer, by the Commissioners of Jasper County, until 2 p. m., for the construction of five stone roads. James M. Leatherman is County Audr.

Tipton, by the Commissioners of Tipton County, until 10 a. m., for the construction of three gravel or stone roads. J. H. Tranarger is County Audr.

Fowler, by the Commissioners of Benton County, until 1 p. m., for the construction of a free stone road in York Township. Lemuel Shipman is County Audr.

Nov. 7: Paoli, by the Commissioners of Orange County, until 2 p. m., for the construction of two roads in Palot Township. Alvin B. Ham is County Audr.

Logansport, by the Commissioners of Cass County, until 10 a. m., for the construction of one gravel road and one macadam road. J. E. Wallace is County Audr.

Lawrenceburg, by the Commissioners of Dearborn County, until noon, for the construction of highways in Manchester and Jackson Townships. Wm. S. Fagaly is County Audr.

Vincennes, by the Commissioners of Knox County, until 2 p. m., for the construction of 4,750 ft. of gravel road in Vincennes Township. John T. Scott is County Audr.

Nov. 8: Lafayete, by the Commissioners of Tippecanoe County, until 10 a. m., for the construction of the following gravel roads: the Martin et al Road 24, 7,920 ft. in length; the Ansen et al Road, in Township 24, and the Erwin et al Road, in Township 23. George W. Baxter is County Audr.

Nov. 9: Peru, by the Commissioners of Miami County, until noon, for the construction of three roads. Frank K. McElheny is County Audr.

Chicago, Ill.—Bids will be received by the Board of Local Improvements until Oct. 19, for constructing cement sidewalks on various streets. E. J. Glackin is Secy.

Lincoln, Ill.—We are officially advised that bids will be asked in about three weeks for paving two or three miles of streets. W. D. Gayle is Mayor, and W. C. Bates, Engr.

Monmouth, Ill.—Bids will be received by the City Council until Nov. 15, for 9,300 sq. yds. brick paving, on gravel base, with concrete gutter on First Ave. and 5,400 sq. yds. of brick paving, on gravel base, with concrete gutter, on B St. R. M. Ferguson is City Engr.

***Rockford, Ill.**—Bids will be received by the Board of Local Improvements until 1.30 p. m., Oct. 24, for approximately 27,300 sq. yds. of brick pavement. Plans and specifications will be furnished upon application to the City Engineer. W. W. Bennett is Pres. Bd.

St. Paul, Minn.—Forrestal & Feyen, Scandinavian American Bldg., St. Paul. have 200 miles of road work in Northwestern Minnesota to let to subcontractors in distances and amounts to suit the contractors. This work will suit contractors with from four to 20 teams.

✚**Marceline, Mo.**—We are officially advised that a contract for constructing brick pavement has been awarded to FRED. CLARK, at $1.685 per sq. yd.

St. Louis, Mo.—The Board of Local Improvements have decided to ask bids for paving 25th St. from the Louisville & Nashville R. R. to Morrison Ave. The estimated cost is $53,469.

A plan to pave Caseyville Road from Ninth and Lynch Sts. to the City limits, is contemplated. Estimated cost, $192,000.

Fulton, Mo.—We are officially advised that the country surrounding Fulton, including the city of Fulton, have formed the Fulton Road District, for the purpose of improving the country roads leading each way from Fulton for a distance of four miles. Included in this will be eight miles of the Cross State Highway, which will be built from St. Louis to Kansas City through the central portion of the state. This district has voted a bond issue of $100,000 for the improvement of roads. The proposition is to build 30 miles of rock and gravel roads and grade all the dirt roads 30 ft. wide. The work will not be commenced until next year. R. L. Smith, T. N. Lynes and H. G. Turner are the Commissioners in full charge of the work. P. D. Thurman is City Engr. of Fulton.

Pine Bluff, Ark.—Bids will be received by the Commissioners of Paving District No. 27 until 2 p. m., Nov. 1, for constructing 20,000 sq. yds. of treated wood block pavement, 10,000 lin. ft. of combined curb and gutter, 13,500 cu. yds. of excavation and one concrete bridge. Specifications, proposal blanks and full information may be obtained from William J. Parkes, Engr., Citizens' Bank Bldg., Pine Bluff.

✚**Greenville, Tex.**—The City Council has awarded a contract for paving five blocks of streets to the TEXAS BITULITHIC CO., of Dallas.

✚**Galveston, Tex.**—The County Commissioners Court has awarded the contract to KELSO & VAUTRIN for paving the arch bridge portion of the causeway with vitrified Thurber brick at $1.90 per sq. yd. In all about 4,000 sq. yds. of paving will be done. The

court also awarded to the same firm the contract for surfacing the protected and unprotected portions of the causeway with mud shell at $1.25 per cu. yd. In all about 12,000 cu. yds. will be required.

Texarkana, Tex.—The City Council has established a new improvement district known as No. 14 and it is proposed to issue bonds to the amount of $75,000 to pave and gutter the streets within the district.

+Colorado Springs, Colo.—We are officially advised that the contract for paving and otherwise improving District No. 1, has been awarded to J. F. Hill, Chicago, Ill., at $132,903. Noted Oct. 12.

Salt Lake City, Utah.—We are officially advised that bids for sidewalk construction were received Oct. 6 as follows: (A) Extension No. 146; (B) Extension No. 143; (C) Extension No. 156; (D) Extension No. 157; Consolidated Construction Co., (A) $25,033; (B) $8,904; (C) $4,609; (D) $8,196; Zerbe & Walker, (A) $27,209; McKay & Reed, (A) $28,558; (B) $11,391; (C) $6,579; (D) $9,006. G. F. McGonagle is City Engr. Noted Sept. 28.

+Colfax, Wash.—The contract for improving Road No. 21, known as the G. N. Clark Road, which begins at Garfield, Wash., and runs three miles east, has been awarded to the WILSON-BAILEY CONSTRUCTION CO., North Yakima, Wash., at $23,270. The same company was awarded the contract for the construction of 5,600 ft. of road on the Colfax and Palouse City road at $8,930.

+Pendleton, Ore.—We are officially advised that contracts for paving Webb and Alba Sts., and others, have been awarded to the WARREN CONSTRUCTION CO., Portland, Ore., at $40,000.

+Grants Pass, Ore.—A contract for paving North Fourth St. from F. St. to Evelyn Ave. has been awarded to ALBERT ANDERSON at $9,138.

+Los Angeles, Cal.—JOHN W. POLCARO, 212 Stimson Bldg., has been awarded a contract at $36,728 by the Board of Supervisors for the improvements of 4.16 miles of the La Canada-Verdugo Road from La Canada to Pasadena.

Santa Barbara, Cal.—Bids will be received by the Board of Supervisors until 10 a. m., Oct. 23, for furnishing the labor and material necessary for grading about 11.14 miles of road in the Permanent Road Division of Coleta. C. A. Hunt is County Clk.

+Vallejo, Cal.—The Board of Supervisors have awarded the contract for reducing the grade of the Sulphur Springs Road to O'BRIEN BROS. & SMITH, at $7,900.

Venice, Cal.—Bids will be received until 5 p. m., Oct. 23, for grading, paving, cement curbs, gutters and sidewalks on Pleasant Ave., from Broadway to California Ave. C. S. Thatcher is Clk.

Bakersfield, Cal.—Bids will be received by the Board of Trustees until 5 p. m., Oct. 23, for grading, paving and constructing gutters and curbs on F St., from 15th to 19th St.; on L St., between Truxtun and 19th Sts, and on 19th St. between G and Oak Sts. H. F. Murdock is Clk.

+Santa Monica, Cal.—FRED H. STOUT, Bradbury Bldg., Los Angeles, has been awarded a contract for improving Seventh St. from Nevada St. to the South City limits at 10 cts. per sq. ft. for 250,000 sq. ft. of oil macadam paving, and 33 cts. per lin. ft. for 12,000 ft. of cement curb. Total, $30,000.

MANUFACTURING PLANTS.

(*+Denotes a contract awarded.*)

Springfield, Mass.—Plans have been prepared for Gilbert & Barker Mfg. Co., Springfield, manufacturers of gas appliances, for an addition of eight buildings. The main structure will be 63 x 105 ft., two stories; sheet metal building, 160 × 250 ft, one story; furnace building, 83 x 120 ft., one story; power house, 52 × 90 ft., as well as an office building, storehouses, testing house and minor structures.

Brockton, Mass.—The Emerson Shoe Co. and The E. T. Wright Co., two shoe concerns of this city, intend to enlarge their factories in the sprng of 1912.

Lynn, Mass.—Thomas W. Gardiner, last manufacturer, 3 Box Pl., will erect a large last factory in Lynn. It will contain 34,000 sq. ft. of floor space.

Bridgeport, Conn.—The Fletcher Engineering Co., of this city, is receiving bids for the heating, plumbing, electrical work, painting and sprinkler system for the factory which they are erecting here for the Baird Machine Co. Noted June 15 and Aug. 10.

Fulton, N. Y.—The Volney Paper Co. is considering plans for an addition to its 3-story factory. Bids are being received by Eugene Sackett, Arch., 34 Syracuse Bank Bldg., Syracuse.

Albany, N. Y.—The Albany Saw Works Co. has been incorporated with a capital of $50,000. A plant for the manufacture of saws of all kinds will be erected. E. L. Decker and H. H. Mills are interested.

Buffalo, N. Y.—The Buffalo Incubator Co. will enlarge its plant at Bradley, Dewitt and Danforth Sts. by the erection of three additional buildings, 50 x 80 ft., 50 x 60 ft., and 26 x 32 ft. Building plans have been filed.

The Pierce-Arrow Motor Car Co. has purchased a site of 35 acres on the New York Central R. R. Belt Line between Niagara Falls Boulevard and Fairchild Ave. and extending to Hertel Ave. on which it will erect a plant for the manufacture of motor trucks and commercial vehicles. Detailed plans for the new plant are now in preparation.

Oneida, N. Y.—The National Iron Foundry & Supply Co., Williamsport, Pa., will begin the erection of a plant at Oneida this fall.

Rochester, N. Y.—The Great Northern Mfg. Co., Rochester, has been incorporated with a capital stock of $100,000 to manufacture motion picture machinery. A plant will be erected for this purpose. A. S. Knight, Rochester, is interested.

Plans are being prepared by Hutchinson & Cutler, 322 Cutler Bldg., for the 16-story factory to be erected on State St. for the Eastman Kodak Co.

The Clark Paper & Mfg. Co. is contemplating the erection of a group of factory and office buildings on Dewey Ave. The cost of the main building will be about $100,000. The machinery in the present plant in Mill St. will be moved and new machinery will be added.

Troy, N. Y.—Archt. Stanton Lee has completed plans for a 4-story and basement knitting mill, 60 × 60 ft., with extension 40 × 40 ft., to be erected by the Aetna-Wrights Health Underwear Co.

Celeron, N. Y.—The factory of the Chadakoin Boat Co., at Celeron, N. Y., on Lake Chautauqua, near Jamestown, was destroyed by fire Oct. 4 with a loss of $35,000. The factory is to be rebuilt at once.

Hamlin, N. Y.—The Hamlin Cold Storage Co. has decided to erect a chemical cold storage plant to cost not less than $150,000.

[illegible], N. J.—The Commercial Motor Truck Construction Co., 828 Broad St., has been incorporated with $125,000 capital stock [illegible] manufacture motor vehicles. The incorporators are William Dimond, John True [illegible] Eugene Turton, all of Newark, and the company intends to erect [illegible]

+[illegible] Pittsburgh, Pa. — MACARTHUR-CONCRETE PILE & FOUNDATION CO., 11 Pine St., New York, has been awarded contract for pedestal concrete pile foundations of a large machine shop for the Westinghouse Electric & Mfg. Co., East Pittsburgh. Prack & Perrine are Archs.

Washington, Pa.—Plans are being prepared by Charles D. McCarty, Reilly Bldg., Wheeling, W. Va., for the erection of three glass factories. The Hazel Atlas Glass Co., Wheeling, is the owner. The cost is $40,000.

+Pittsburgh, Pa.—We are officially advised that the contract for placing the concrete piles for the foundations of a boiler house and coal bins to be erected at the Park works of the Crucible Steel Company of America, Pittsburgh, has been awarded to the RAYMOND CONCRETE PILE CO., 90 West St., New York. James Brennen is Ch. Engr.

Lebanon, Pa.—The erection of a new foundry plant is being contemplated by the Iron City Foundry Co., Lebanon, Pa., at Third and Willow Sts. The main foundry building will be 40 × 1,220 ft. and several other buildings are to be erected.

Reading, Pa.—A new 3-story factory building is to be erected by George W. Bard to take the place of the one which was recently destroyed by fire.

Parker, (Pollock post-office), **Pa.**—The Root Dairy Supply Co. will erect a plant on Fifth St. at a cost of $100,000.

Baltimore, Md.—The Cigar Machine Corporation has recently been organized and will erect a factory in Baltimore. The incorporators are Richard A. Bright, Richard H. Hogan and Edward H. Hughlett.

Charlotte, N. C.—Plans and specifications are being prepared by Edward Sohle, Charlotte, for the erection of a plant proposed by the Olympia Cotton Mills, of San Antonio. About $250,000 will be expended.

Greenville, S. C.—The Gilreath Mfg. Co. are having plans and specifications for a 2-story knitting mill, 190 x 35 ft., prepared by Lockwood, Greene & Co., Archs. The structure will be of mill construction throughout.

Alliance, Ohio.—The Enterprise Manufacturing Co. will erect a 1-story shirt factory. Architect has not yet been selected. Cost, $15,000.

Columbus, Ohio.—The Snyder, Chaffee Co. will erect a manufacturing building. Cost, $150,000. Architects have not yet been selected.

Cleveland, Ohio.—The Perfection Spring Co. will erect a factory addition to their plant at 6608 Central Ave. The estimated cost is $13,000.

Toledo, Ohio.—George S. Mills, 1234 Ohio Bldg., has ben commissioned by the Toledo Fibre Package Co. to prepare plans for a 2-story and basement factory, 80 x 100 ft. Cost, $35,000.

+Toledo, Ohio.—Langdon & Hohly, 1442 Nicholas Bldg., have awarded the following contracts for the 2-story and basement factory, 60 x 173 ft., for the Defiance Tick Mitten Co., 1210 Jackson St.: General contract to H. G. SPIEKER CO., 409 Michigan St.; plumbing to GIRKINS & BOES, 817 Monroe St. Cost, $35,000.

Warren, Ohio.—A 1-story factory building, 300 x 80 and 475 x 80 ft., will be erected by the Ohio Steel & Wire Co. Bids are being received. Plans were prepared by Henry & Murphy, Doyle Bldg., Akron.

Springfield, Ohio.—A 1-story factory, 96 × 240 ft., will be erected by the Foos Gas Engine Co. Bids will be received until Oct. 21. R. C. Gotwald is Arch. Cost, $10,000.

Brookville, Ind.—The French-Baur Creamery Co. has ordered plans on which to ask for bids for the construction and equipment of a new creamery building on the site of the creamery recently destroyed by fire.

Cambridge City, Ind.—A 1-story, 100 × 240 ft. machine shop will be erected by the Bertsh Foundry & Machine Co., Cambridge City. Plans are being prepared by Bert L. Baldwin & Co., Pevin Bldg., Cincinnati, Ohio.

Vincennes, Ind.—Plans are being prepared for rebuilding the plant of the Diamond Flint Glass Co. on the site of the plant recently destroyed by fire. Bids will be received as soon as plans are approved. J. W. Carey is Pres.

Muncie, Ind.—Bids will be received soon by the Muncie Ice Co. for the construction and equipment of a large ice plant.

Detroit, Mich.—George V. Bottle, 708 Detroit Gas Co. Bldg., is preparing plans for a 1-story factory building, 60 × 125 ft., for the Detroit Excelsior Works, 1636 Russell St. Building to be of structural iron and stock brick construction. Cost, $25,000.

The Miller Car Co., 1636 Russell St., is having plans prepared for a 1-story factory building, 59 x 125 ft. The owners will purchase materials and sublet all contracts. Cost, $25,000.

+Baxter & O'Dell, 1024 Hammond Bldg., have awarded the general contract for the 2-story and basement warehouse, 58 × 120 ft., for A. L. Holmes, 877 Gratiot Ave., to H. WEHLS, 845 Baldwin Ave.

+Allen & Hill, 711 Detroit Gas Co. Bldg., have awarded the following contracts for the foundry, 40 × 80 ft., for the American Brass & Iron Co. Hornbly and Crystal Sts.: Masonry, to F. L. COOPER, 203 Grandy Ave.; carpentry, to L. A BEAKER, 133 Stanley Ave. Cost, $20,000.

+Malcomson & Higginbotham, 404 Moffat Bldg., have awarded the general contract for the 2-story addition to the present plant of Edmunds & Jones at 436 Lawton Ave., to DE LISLE, CULBERTSON, WINCHESTER CO., 430 Penobscot Bldg. Cost, $25,000.

+Lansing, Mich.—The Olds Motor Car Co. have awarded the following contracts for the 2-story and basement factory, 758 × 74 ft.; General contract, W. E. WOOD, 621 Ford Bldg., Detroit; structural iron work, RUSSEL WHEEL & FOUNDRY CO., Detroit. The estimated cost is $100,000.

Grand Rapids, Mich.—Robinson & Campan, 449 Houseman Bldg., have prepared plans for a 4-story factory building, 110 × 160 ft., for O. and W. Thum, 410 Straight St. Foundation for this plant will be put in by day work. Cost, $40,000.

Muskegon, Mich.—Vanderwest & Pease, Montgomery Bldg., have been commissioned to prepare plans for a 2-story foundry, 100 × 195 ft., to be located near Muskegon. Building to be of concrete and steel construction. Cost, $45,000.

Hamtramck, Mich.—Albert Kahn and E. Wilby, Trussed Concrete Bldg., Detroit, are preparing plans for a 1-story blacksmith shop, 400 × 70 ft., for Dodge Bros., Joseph Campau Ave., Hamtramck. The estimated cost is $35,000.

+Saginaw, Mich.—E. M. Wood, of Alma, Mich., has awarded the following contracts for a factory building to be located in Saginaw: General contract to SPENCE BROS., Saginaw; masonry, to WALTER QUALMAN, Saginaw; heating and plumbing, to C. H. CANNAN, Saginaw. Cost, $25,000.

Bay City, Mich.—The Industrial Works will erect a machine shop, 125 × 350 ft., at their plant. The estimated cost is $200,000.

Hinsdale, Ill.—Plans are being prepared by W. G. Barfield, Arch., 60 West Washington St., for a 2-story, 95 × 130-ft. automobile factory. A. E. Keith is owner. Bids will be received some time in October.

Cairo, Ill.—The ice plant of Winter Bros., Eighth St., will be rebuilt at a cost of $50,000.

Sioux City, Iowa.—An artificial ice plant will be erected on West Third and Kansas Sts. by the Consumers Ice Co.

Sioux City, Iowa.—Hutchinson Bros. Co. will erect a refrigerating and ice cream plant at Sioux City. E. J. Hutchinson is Pres.

Des Moines, Iowa.—Plans are being prepared by Proudfoot, Bird & Lawson, Flynn Bldg., for the construction of a bakery building. Wynn Campbell is owner. The cost is $100,000.

Elgin, Iowa.—The Elgin Canning Co. has decided to erect a new factory at a cost of $25,000.

Bartlett, Tex.—A. S. Hardin, of Bartlett, is receiving plans and specifications for an ice manufacturing plant which himself and associates propose to erect at Bartlett to be operated in connection with his electric light and power plant.

Houston, Tex.—Permits have been issued to the Magnolia Petroleum Co. for the erection of its plant, consisting of buildings and steel oil tanks, on a site at the corner of McKinney Ave. and Milby St. There will be six steel tanks erected on concrete foundations, one 2-story brick plant building and another 1-story and basement building, and the cost will be about $10,150.

El Paso, Tex.—Plans are being prepared for the first unit of the Pierson Co.'s $3,000,000 steel and concrete wood working factory. A paper mill, power plant, storage sheds, planing mill, machine shop are to be constructed.

El Paso, Tex.—The Schwarzchild & Sulzberger Co. will erect a modern meat storage plant and distribution depot here at a cost of $40,000.

Bryan, Tex.—The Bryan Pure Food & Mfg. Co. will establish a factory at Bryan for the manufacture of baking powders, extracts, soda and other food products. L. D. Abbott, St. Louis, is interested.

+Seattle, Wash.—The contract has been awarded to the SOUND CONSTRUCTION & ENGINEERING CO., Lowman Bldg., at approximatey $60,000 for construction work in connection with the Seattle Brewing & Malting Co. Plans by Blackwell & Baker, Northern Bank Bldg.

+San Francisco, Cal.—The Board of Public Works has awarded the following contracts for City and County Hospital equipment: Laundry plant, to the TROY LAUNDRY MACHINERY CO. at $14,994; ice making plant, VULCAN IRON WORKS, $13,389.

San Diego, Cal.—Quayle Bros., Archs., Granger Bldg., are preparing plans for a group of factory buildings to be erected on 26th St. for the Savage Tire Co. The main building will be a 3-story brick, 150 × 159-ft. structure and will contain the mechanical equipment and offices. The other buildings will be smaller and will contain the furnaces and heavy machinery for working crude steel.

Los Angeles, Cal.—The Los Angeles China Mfg. Co., recently incorporated, is having plans prepared by Edward G. Taylor, Consolidated Realty Bldg., for the erection of a group of buildings at a cost of $60,000, to be located at Dominguez.

Sarnia, Ont.—The Imperial Oil Co. will probably spend $500,000 in increasing its plant. J. Kiplin is Local Mgr.

Winnipeg, Man.—Plans have been completed by Bartberger, Cooley & Bartberger, Westinghouse Bldg., Pittsburgh, Pa., for the erection of a bakery to be two stories, 206 × 78 ft., and cost $175,000. The Canada Bread Co., Ltd., is the owner.

+Winnipeg, Man.—The contract for constructing a plant on Burnell St. for the Canadian Bakery Co. has been awarded to G. H. ARCHIBALD. The new factory will be reinforced concrete and brick, 200 × 80 ft., three stories high.

Nanoose Bay, B. C.—The Union Lumber Co. will erect a sawmill of large capacity at Nanoose Bay, Vancouver Bay.

Minas Nuevas, Mex.—The Veta Colorada Mining & Smelting Co. will enlarge its mill at Minas Nuevas from 350 tons to about 600 tons daily capacity. Firman Smith, of Knoxville, Tenn., is interested.

Pachuca, Mex.—The Santa Gertrudes Mining Co., of Pachuca, will install two tube mills on its property at San Guillermo.

MISCELLANEOUS CONTRACTS.

(**Denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news concerning canal and Irrigation projects, etc., will be found under Water Supply—Irrigation.

Elimination of Grade Crossings.—Burlington, Vt.—It is proposed to eliminate grade crossings at an estimated cost of $315,000, involving the construction of a new union station for the Central Vermont and Grand Trunk Railroads. Howard C. Kelley is Engr. for Grand Trunk R. R.

Tunnel.—Boston, Mass.—See item under Electric Railways.

***Dredging.—Bridgeport,** Conn.—See item under "Proposals."

***Dredging.**—New York, N. Y.—Bids will be received until noon, Nov. 13, by Col. S. W. Roessler, Corps Engrs., U. S. A., New York, for dredging in Hempstead Harbor, Long Island, N. Y.

Dredging, Etc.—New York, N. Y.—Bids were received as follows on Oct. 7 by Col. William T. Rossell, Corps Engrs., U. S. A., New York, for (a) dredging in Raritan Bay, N. J., and for (b) removing rock hardpan and boulders from Arthur Kill, N. Y. and N. J.: P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., (a) 20.7 cts. per cu. yd. scow measurement, (b) $2.84 per cu. yd. scow measurement; R. G. Packard Co., 130 Pearl St., New York, (a) 22 cts.; John and Joseph McSpirit, 118 Wayne St., Jersey City, (b) $2.90 per cu. yd. scow measurement. The bids of P. Sanford Ross have been recommended for acceptance.

Transfer Station.—New York, N. Y.—Bids will be received by Reed & Stem, Archs., 7 East 42d St., New York, until Nov. 15, for the construction of a 2-story brick, steel and reinforced con-

crete transfer station, 250 × 150 ft., at 180th St. subway station. Estimated cost, $200,000

Fire Appliances.—New York, N. Y.—Bids will be received by Calvin Tomkins, Comr. of Docks, until Oct. 24, for Contract No. 1288, for furnishing material and installing additional fire appliances on the recreation piers in the Boroughs of Manhattan and Brooklyn.

Road Gravel.—New York, N. Y.—Bids will be received until 3 p. m., Oct. 26, by the Park Board, Dept. of Parks, Arsenal Bldg., Fifth Ave. and 64th St., Boro. Manhattan, for furnishing and delivering Hudson River road gravel in parks and on parkways, Boro. Brooklyn.

Lumber.—New York, N. Y.—Bids will be received by the Park Board, Dept. of Parks, until 3 p. m., Oct. 26, for furnishing and delivering lumber.

Sand and Broken Stone.—New York, N. Y.—Bids will be received until noon, Oct. 26, by Calvin Tomkins, Comr. of Docks, for Contract No. 1284, Classes 2 and 3, for furnishing all the labor and materials required for furnishing and delivering sand and broken stone.

+*Subway.—New York, N. Y.—The Public Service Commission on Oct. 10 awarded the contract to the HAGERTY-DRUMMOND CO., Philadelphia, Pa., for building that section of the Lexington Ave. subway of the Tri-Borough Subway System, just north of the Harlem River and including the lower ends of the branches to Pelham Bay Park and Jerome Ave., at $3,020,129. The contract must be approved by the Board of Estimate.

Piers.—New York, N. Y.—Bids were received as follows on Oct. 14 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for piers E and F, navy yard, New York: Riverside Contracting Co., 39 Cortlandt St., New York, item (1) $139,629, (2) $1,200, (3) $127,716, (4) $1,300; New York State Construction Co., 78 Broad St., New York, item (1) $105,470, (2) $843, (3) $99,434, (4) $995; Sanford & Brooks Co., 24 Commerce St., Baltimore, Md., item (1) $115,937, (2) $906, (3) $113,379, (4) $1,100; Luke A. Burke & Sons Co., Inc., 25 West 42nd St., New York, item (1) $133,792, (2) $800, (3) $124,500, (4) $975; Phoenix Construction Co., 41 Park Row, New York, item (1) $153,365, (2) $1,184, (3) $139,420, (4) $1,336; E. De V. Tompkins, 81 East 125th St., New York, item (1) $116,920, (2) $1,600, (3) $102,950, (4) $1,740; Butler Bros. Construction Co., 1170 Broadway, New York, item (1) $121,798, (2) $974, (3) $115,575, (4) $924; North Eastern Construction Co., 225 Fifth Ave., New York, item (1) $114,400, (2) $1,600, (3) $111,400, (4) $1,800; Holbrook, Cabot & Rollins Corporation, 331 Madison Ave., New York, item (1) $125,000, (2) $850, (3) $117,000 (4) $975.

***Fire Escapes.**—Utica, N. Y.—Bids will be received until 3 p. m., Oct. 25, by the State Commission in Lunacy, 53 Lancaster St., Albany, N. Y., for furnishing and erecting six steel fire-escapes at the Utica State Hospital, Utica. Drawings and specifications may be consulted and blank forms of proposal obtained at the Utica State Hospital and at the office of the State Architect. Complete sets of plans and specifications will be furnished to prospective bidders upon reasonable notice to and in the discretion of Franklin B. Ware, State Arch., Albany, N. Y. T. E. McGarr is Secy. Comn.

Animal House.—Buffalo, N. Y.—The Board of Park Commissioners is having plans prepared for an elephant house and other buildings for the Zoological Gardens in Delaware Park. Estimated cost, $100,000.

Grain Storage Tank.—Buffalo, N. Y.—Spencer Kellogg & Sons, manufacturers of linseed oil, will build a reinforced concrete grain storage tank 35 ft. in diameter and 60 ft. high of 50,000 bushels capacity adjoining its Elevator A. at Ganson St. and the Buffalo River at a cost of $75,000. Later on Elevator A., which is of wood, will be replaced with a steel and concrete storage elevator.

***Bricks, Gravel, Stone.**—Collingswood, N. J.—Bids will be received until 8 p. m., Nov. 3, by T. W. Madden, Chn. Boro. Highway Com., for 250,000 more or less, No. 2 vitrified paving bricks, f. o. b. cars Collingswood, to be delivered as wanted on ten days' notice, each bidder to supply six samples of the brick he proposes to furnish, plainly marked, together with a written statement describing the brick in detail, also rattler tests and maximum percentage of water it will absorb; for about 2,000 tons of good road gravel delivered f. o. b. cars at Collingswood Station as wanted on ten days' notice, each bidder to supply a 10-lb. sample of the gravel he proposes to furnish; and for about 7,000 tons of crushed stone delivered f. o. b. cars, Collingswood Station, to be delivered as wanted on ten days' notice. One-half of the crushed stone is to be 2½-in. good hard stone, the remainder of the order to be trap rock, 1½-in. stone and screenings. 10-lb. samples of each, plainly marked, to be submitted with each bid.

Immigrant Station.—Gloucester, N. J. —Bids for constructing the new immigration station to be located at Gloucester, have been opened at Washington. The lowest bid submitted for the work was that of Cramp & Co., Commonwealth Bldg., Philadelphia, Pa., at $88,500. The new station will be reinforced concrete, three stories in height, with red tiled roof. A double-decked pier, which will extend into the Delaware River about 400 ft. will also be built.

+Steel Pipe.—Pittsburgh, Pa.—The NATIONAL TUBE CO., Frick Bldg., Pittsburgh, it is reported, has been awarded a contract by the Canadian Western Gas, Light, Heat & Power Co. for 40,000 tons of steel pipe from 3 to 10-in., for shipment to the Calgary oil districts in Canada.

Bronze, Copper, Etc.—Washington, D. C.—The Bureau of Supplies and Accounts, Navy Dept., Washington, will receive bids until Oct. 24 for furnishing 6,700 lbs. of naval bronze, 775 lbs. of sheet copper, 1,500 lbs. black sheet iron, 8,500 lbs. of galvanized sheet iron, 500 lbs. of half and half solder, 18,200 lbs. of galvanized sheet steel, 14,800 lbs. of black sheet steel, under Schedule 3896; also a miscellaneous quantity of lead pipe, heavy w.-i. pipe, bronze tubing and 18 2-in. brass globe valves, Schedule 3896; delivery Washington, D. C.

Elevator Plant.—Washington, D. C.—The following bids were received on Oct. 10 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, for an electric elevator plant in the U. S. post-office at Washington; A. B. See Electric Elevator Co., Washington, $57,400; Otis Elevator Co., New York, $44,179.

***Mechanical Equipment.** — Washington, D. C.—Bids were received as follows on Oct. 10 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, for mechanical equipment of the new U. S. post-office at Washington: W. G. Cornell Co., Fourth Ave. and 17th St., New York, $208,399; Hoban & Doyle, Philadelphia, Pa., $230,000; Fitzpatrick & Hoepfner, Columbus, Ohio, $214,700; S. Faith & Co., Philadelphia, $234,900; York Engineering Co., York, Pa., $209,000; Warner & Ritterhouse, Washington, D. C., $208,092; Hanley-Casey Co., Chicago, Ill., $220,796; Wm. A. Pope, Chicago, $256,450; John W. Danforth Co., Buffalo, N. Y., $215,490; Crook-Kries Co., Baltimore, Md., $249,945.

***Mail Handling Apparatus.**—Washington, D. C.—Bids were received on Oct. 10 by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, for the mechanical system of mail handling apparatus in the U. S. post-office at Washington. The only bid submitted was that of the Lampson Consolidated Store Fixture Co., of Boston, Mass., at $42,750.

Stable. — Washington, D. C. — Bids were received as follows on Oct. 11 by the District Commissioners for the construction of a stable for the Street Cleaning Department: Boyle Robertson Construction Co., $65,260; W. E. Mooney, $64,000; George E. Wyne, $59,500; Luebpert Bros., $63,700; William H. McCray, $67,649; Deffenbaugh Construction Co., $61,882; Arthur L. Smith & Co., $65,000; Davis Construction Co., $60,782; B. T. Pillow, $63,615. All bidders are of Washington.

+Seawall.—Norfolk, Va.—The contract for the construction of a seawall at the navy yard, Norfolk, bids opened by the Bureau of Yards and Docks on Sept. 30, has been awarded to the HENNEBIQUE CONSTRUCTION CO., 1170 Broadway, New York, at $88,670 for item 1 and $15,830 for item 2. List of bidders noted on Oct. 5.

+Lockkeepers' Houses.—Wheeling, W. Va.—Bids for building two 2-story, 8-room lockkeepers' houses at Dam No. 15, Ohio River, were opened on Oct. 2, by Maj. F. W. Altstaetter, Corps Engrs., U. S. A., Wheeling, as follows: (a) Fire-proof tile construction, each; (b) extra concrete; (c) extra excavation; (d) time of completion: Central Construction Co., Parkersburg, W. Va., (a) $6,600, (b) $7.50, (c) 65 cts., (d) 240 days; DAYTON & FRANCIS, New Martinsville, W. Va., (a) $5,869, (b) $8.91, (c) 60 cts., (d) 210 days (awarded contract); Guy Johnson Contracting Co., Toronto, Ohio, (a) $6,197, (b) $8, (c) 60 cts., (d) 200 days.

Ditches.—Crowley, La.—Bids will be received until noon, Oct. 28, by the Commissioners of the Sixth Ward and Crowley Drainage District for the construction of about 40 miles of open ditches from two to six miles long, 16 to 40 ft. wide, and 2 to 5 ft. deep, requiring about 600,000 cu. yds. of excavation and 90 acres of clearing. W. S. White is Engr.

Canal. — Donaldsonville, La. — Bids were received on Sept. 25 by the Mississippi and Lafourche Drainage Districts for dredging a canal from the present location of the dredgeboat in Bayou Verrett, Assumption Paris, to the eastern end of the district at LaPice, 4½ miles, as follows: Roach & Lewis, $29,800; N. G. Huth Dredging Co., $4,909 per mile; Snow and Wallace, $17,600.

+Levee Work.—New Orleans, La.—The Board of State Engineers, on Sept. 25, awarded contracts as follows for levee work in Avoyelles and East Baton Rouge Parish: To McMANUS BROS., at 15 cts. per cu. yd., for the Experiment Plantation South Levee work, to be erected on the left bank of Red River, consisting of side enlargements, 50,000 cu. yds. of filling; Baton Rouge to Arlington Levee in East Baton Rouge Parish, to R. T. CLARK, at 15.7 cts. per cu. yd., requiring 100,000 cu. yds. No bids were received on the Ben Ruth Lake Levee in East Baton Rouge Parish and new bids will be asked.

Lock.—Louisville, Ky.—Bids were received as follows on Oct. 14 by Maj. Lytle Brann, Corps Engrs., U. S. A., for constructing Lock No. 41, Ohio River, at Louisville: Mansfield Engineering Co., Indianapolis, Ind., $1,237,341; Edward M. Graves, Cleveland, Ohio, $1,200,077; Henry Bickel Co., Louisville, $1,099,327; Robert Grace Contracting Co., Cleveland, Ohio, $1,063,152; T. A. Gillespie Co., Pittsburgh, Pa., $1,089,057; Ohio River Contracting Co., Evansville, Ind., $1,036,473.

Comfort Station.—Columbus, Ohio.—Bids on the Gooddale Park superintendent's home and comfort station opened on Sept. 27, were rejected as excessive and the plans will be revised.

Grain Elevator.—Marion, Ind.—Woodbury & Elliott, Marion, will soon ask for bids for the erection of a large grain elevator on the site of the elevator building recently destroyed by fire.

Fire Apparatus.—South Bend, Ind.—The Board of Public Works is asking for bids for a 100-HP. motor-carrying, two chemical tanks of 70-gallon capacity each and capacity to carry five firemen, and a motor combination hose cart and truck.

Ditch.—Albion, Ind.—The Commissioners of Noble County have granted a petition for the construction of a large ditch in Noble Township, known as the Harlem Ditch. Bids will be asked in a few weeks.

+Grandstand. — Detroit, Mich.—The Detroit Base Ball & Amusement Co., Hammond Bldg., Detroit, has awarded the general contract for the new concrete and steel stand to be erected at Bennett Park to the HUNKIN-CONKEY CO., care of the Detroit Base Ball & Amusement Co. Estimated cost, about $250,000.

Roller Coaster.—Detroit, Mich.—J. Ganklir, 819 Hammond Bldg., Detroit, is considering the erection of a roller coaster on Jefferson Ave. Estimated cost, $25,000.

Dam.—Iron Mountain, Mich.—The Twin Falls Land Co., Lewis T. Sterling, Secy., has filed a petition with the Board of Supervisors of Dickinson County for permission to build a dam across the Menominee River. John E. Quarnstrom is County Clk.

Coaling Station.—Carbondale, Ill.—The ROBERTS & SCHAEFER CO., Engrs. and contractors, Old Colony Bldg., Chicago, Ill., have been awarded a contract by A. S. Baldwin, Ch. Engr., Illinois Central Ry. Co., for designing and construction complete in operation a 500-ton Holmen, counter-balanced bucket - locomotive coaling - station which is to be built at Carbondale, Ill. Approximate contract price, $12,000.

***Channel Excavation.**—Chicago, Ill.—Bids for excavation and collateral work on Contract-Section 2 of the Calumet-Sag Channel were received by I. J. Bryan, Clk. Sanitary District of Chicago, at the office of the District, American Trust Bldg., Chicago, on Oct. 5. The work consists of the excavation and collateral work on Contract Section 2 of the Calumet-Sag Channel of the Sanitary District of Chicago, in the Townships of Palos and Lemont, Ill. The approximate quantities are: (a) 221,000 cu. yds. of glacial drift, (b) 351,000 cu. yds. of rock excavation, (c) 313,000 sq. ft. of channeling, (d) 3,200 cu. yds. of concrete retaining wall, (e) 1,100 cu. yds. of dry rubble wall, (f) totals: Winston Bros. Co., Minneapolis, Minn., (a) 22 cts. per cu. yd., (b) 65 cts., (c) 20 cts., (d) $7, (e) $3 per cu. yd., (f) $365,070; John W. Page, (a) 19 cts., (b) 69 cts., (c) 24 cts., (d) $6.50, (e) $3.50, (f) $383,950; Gist Bros. Co., Randolph, Wis., (a) 27 cts., (b) 71 cts., (c) 27 cts., (d) $5.25, (e) $1.50, (f) $411,840; Michael Hayes & Sons, Janesville, Wis., (a) 25 cts., (b) 80 cts., (c) 25 cts., (d) $5, (e) $1.50, (f) $431,950; Marquette Construction Co., Chicago, (a) 30 cts., (b) 70 cts., (c) 31 cts., (d) $7, (e) $1.40, (f) $432,970; John Marsch, Chicago, (a) 26 cts., (b) 74 cts., (c) 29 cts., (d) $7, (e) $2.50, (f) $433,120; Schnable & Quinn, Chicago, (a) 30 cts., (b) 75 cts., (c) 28 cts., (d) $5.30, (e) $3, (f) $437,450; T. J. Forschner Contracting Co., Lemont, Ill., (a) 28 cts., (b) 79 cts., (c) 25 cts., (d) $9, (e) $250, (f) $448,970; Foley & Gleason Co., Aitkin, Minn., (a) 27 cts., (b) 82 cts., (c) 25 cts., (d) $6.70, (e) $5.50, (f) $453,230; John J. McCoughey, Chicago, (a) 30 cts., (b) 90 cts., (c) 24 cts., (d) $8, (e) $4, (f) $487,320.

+Drainage Canal.—Kenosha, Wis.—Contracts for constructing the Hoosier Creek drainage canal in Racine-Kenosha Counties has been awarded to the NATIONAL DRAIN & TILE CO. for the tiling at $8,000, and to the WHALEN CO., of South Milwaukee, Wis., for the dredging at 9 cts. per cu. yd.

+Memorial Arch.—Madison, Wis.—The Camp Randall Park Commission has adopted the design and bid for the Camp Randall memorial arch, presented by the WOODBURY GRANITE CO., Woodbury, Vt., through their Wisconsin representative, Fred. M. Schlimgen of Madison. The arch is a memorial of the State of Wisconsin to dead heroes of the Civil War.

+Drain.—Rockwell City, Iowa.—The Board of Supervisors of Calhoun County, on Oct. 5, awarded contracts for the construction of Drain No. 163 as follows: For all tile on line of drain, to the SAC CITY CEMENT PIPE CO. of Sac City, Iowa, at $11,760; for all labor, to F. R. GREEN, Lake City, Iowa, at $6,944.

Fish Hatchery.—Detroit, Minn.—The State Game and Fish Commission, St. Paul, Minn., will receive bids until 10 a. m., Oct. 23, for the erection of a fish hatchery at Detroit. Plans were prepared by P. J. Linhoff, Ar[illegible] 903 German American Bank Bld[illegible] St. Paul. H. A. Rider is Executive [illegible] Comn. Estimated cost, $15,000.

Stone.—Duluth, Minn.—B[illegible] were received as follows on Oct. [illegible] Lt.-Col. Francis R. Shunk, Corps [illegible], U. S. A., Duluth, for furnishing [illegible] at Superior Entry, Wis. The bid [illegible] Great Lakes Dredge & Dock Co., [illegible]go, Ill., has been recommended f[illegible]ptance at $1.65 for stone weigh[illegible] not less than five tons each, per [illegible]on, and $1.65 for stone not weigh[illegible]ss than ten tons each.

Stable.—Fort Riley, Kan[illegible]ds will be received until 11 a. m., [illegible] 27, by Col. John L. Clem, Ch. Q[illegible] S. A., Fort Riley, for furnishing [illegible] necessary labor and material [illegible]red for rebuilding a cavalry stabl[illegible]

Ditch.—York, Neb.—Bids [illegible] be received by the Secretary [illegible] Waco Drainage District of York [illegible]nty, at York, until Oct. 26, for [illegible]nstruction of the following drain[illegible]0 ft. of open ditch; 5,590 ft. of 27-i[illegible] No. 2 vitrified clay pipe, and 2 cu. [illegible] of concrete. Estimated cost, $13,[illegible] Grant & Letton are Engrs., Lincoln, N[illegible]

***Drainage Canal.**—Caruth[illegible]ville, Mo. —Bids will be received by [illegible] M. Tinsley, County Clk., Pemiscot [illegible]nty, until Nov. 20, for about 3,000,[illegible] cu. yds. of earth excavation for [illegible] drainage canal.

Excavating Channel.—St. Joseph, Mo. —Bids were received on Sept. 22 by the Board of Public Works for excavating a channel for an outlet to Brown's Branch, the work requiring moving 17,000 cu. yds. of earth. The low bidder was J. L. Buis.

+Ditch. — Warrensburg, Mo. — Bids were received on Sept. 26 by the county for constructing a main ditch, 6.41 miles in length, 6.5 miles of laterals and building necessary bridges. The contract has been awarded to G. A. & R. H. McWILLIAMS, 39 Jackson Boulevard, Chicago, Ill., at 6 cts. per cu. yd. for main ditch and 11.9 cts. per cu. yd. for laterals.

Levees.—Texarkana, Ark. — Auction bids will be received until 1 p. m., Nov. 11, by Miller Levee District No. 2, at Texarkana, for constructing about 2,000,000 cu. yds. of levees, together with certain drainage ditches. Should any contractor wish to send a sealed bid, his bid will be left unopened in view of all bidders until the open bidding is concluded. The sealed bid or bids will then be opened and considered. Bids will be received for the work as a whole, or for any section thereof. The Morgan Engineering Co., Memphis, Tenn., is Engr., 610 Goodwin Institute, Memphis, Tenn. N. H. Williamson is Secy. District, Texarkana.

Straightening, Etc., Channel.—Oklahoma City, Okla.—G. V. McClure, City Engr., it is reported, will prepare plans for straightening and deepening the Canadian River channel within the city limits. Estimated cost, $350,000.

Drainage District.—Caldwell, Idaho. —The Canyon County Commissioners, Caldwell, have granted a petition for establishing a drainage district between Caldwell and Nampa. Contents, 8,440 acres.

Wire.—Boise, Idaho.—Bids will be received until 2 p. m., Oct. 20, by the U. S. Reclamation Service, 685 Federal Bldg., Los Angeles, Cal., for furnishing copper wire for the Boise Project, Idaho.

Dredging.—Seattle, Wash.—Bids were received as follows on Sept. 28 by Maj. J. B. Cavanaugh, Corps Engrs., U. S. A., Seattle, Wash., for dredging 520,700 cu. yds. in Snohomish River: Puget Sound Bridge & Dredging Co., Seattle, 11.4 cts. per cu. yd., total $59,360; International Dredging Co., Seattle, 13 cts., $67,691; Tweeden & Jones, Tacoma, Wash., 12.25 cts., $63,786; Tacoma Dredging Co., Tacoma, 11.2 cts., $58,318.

Cable—Spokane, Wash.—Bids will be received until 10 a. m., Oct. 19, for the purchase of the following material f. o. b. Spokane: 4,000 ft. of 4 cond. No. 14, 5,205 ft. of 6 cond. No. 14, 19,780 ft. 10 cond. No. 4, 4,320 ft. of 15 cond. No. 14, 2,050 ft. of 25 cond. No. 14, 500 ft. of 50 cond. No. 14, 500 ft. of 70 cond. No. 14, and 1300 ft. of 6 cond. No. 16 B. & S. gage, solid-copper, rubber insulated, lead encased cable. 1300 ft. of 10-pair No. 19 B. & S. gage, paper-insulated, lead-incased telephone cable. Specifications can be procured at the office of the Purchasing Agent. J. C. Argall is Purchasing Agt.

Fire-boat.—Portland, Ore.—Bids will be received by A. L. Barbur, City Audr., until 2 p. m., Nov. 9, for building a steel fireboat according to the plans and specifications on file at the office of the Chief of the Fire Department.

Dredge.—Portland, Ore.—Bids will be received by the Port Board, City Hall, Portland, until 4 p. m., Nov. 9, for the construction of a 30-in. hydraulic dredge with steel hull.

Storehouse.—Monterey, Cal. — Bids will be received until 11 a. m., Nov. 8, by Capt. W. B. Gracie, P. M., U. S. A., Presidio of Monterey, Monterey, for the construction of a storehouse.

Concrete and Iron Fence.—Los Angeles, Cal.—Bids will be received until 2 p. m., Nov. 6, by the County Board of Supervisors, Los Angeles, for the construction of a concrete and iron fence on the grounds of the County Hospital. H. T. Lelande is County Clk.

Bulkhead Wall.—Oakland, Cal.—The City Clerk has been authorized to advertise for bids for the construction of

a bulkhead retaining wall across the Key Route Basin from the Southern Pacific mole to the Key Route mole. Estimated cost of bulkhead, $12,000. The wall will be constructed of 50-ft. piles driven eight feet apart, with a sheeting fastened inside to extend down 26 ft. below the surface of the water.

Concrete Wall.—Pasadena, Cal.—G. C. Keyes, Arch., Chamber of Commerce Bldg., Pasadena, is preparing plans for a concrete wall, with ornamental iron fence, with electric light posts at intervals of 100 ft., to surround the grounds at the County Hospital. The wall will be about 3,000 ft. long. Bids for the work will be asked soon.

Dredging.—Oakland, Cal.—All bids received by Lt.-Col. Thomas H. Rees, Corps Engrs., U. S. A., San Francisco, for dredging in the Oakland Harbor have been rejected. New bids will probably be asked. Noted on Sept. 7.

+Concrete Bulkhead.—Stockton, Cal.—The City Council has awarded the contract to R. C. TUMULTY for constructing the concrete bulkhead at the end of Weber Point, at $12,000.

+Lock Work.—Ottawa, Ont.—The contract for lock work on St. Peter's Canal has been awarded by the Department of Railways and Canals to W. H. WELLER, of St. Catharines, Ont., at $250,000.

+Wall. Breakwaters.—Ottawa, Ont.—Contracts have been awarded as follows by the Department of Public Works, Ottawa, for public improvements: Retaining wall at Owen Sound, Ont., to R. McDOWALL, ALEX. GREEN, F. W. HARRISON, all of Owen Sound; breakwater at St. Joseph, N. S., to D. W. B. REID, of Halifax, N. S.; breakwater at North Bay, to EDWARD CONROY, of Peterboro, Ont.

U. S. POSSESSIONS AND CUBA.

Extension of Water Supply.—Hawaii.—The lowest bid submitted to the Public Works Department of Honolulu, H. T., for furnishing pipe for the proposed extension of the water-supply of Honolulu, it is reported, was that of the Honolulu Iron Works, of Honolulu.

Pipe, Gate Valves, Etc.—Panama.—Bids will be received until 10.30 a. m., Nov. 6, by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for c.-i. pipe and fittings, gate valves, lumber and untreated piles.

Buildings for Quarantine Station.—Porto Rico.—Bids will be received by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Dec. 5, for the construction, complete, of the buildings for the U. S. quarantine station at San Juan, P. R., consisting of five 1-story buildings, having a total ground area of 14,260 sq. ft., with reinforced-concrete walls and floors and tile and tin roof covering. Drawings and specifications may be obtained from the Custodian of site at San Juan, or at the office of the Supervising Architect.

Piling.—Panama.—Bids were received as follows on Oct. 5 by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for the following quantities of long-leaf yellow pine creosote piling for Miraflores wing wall foundations, 750 lengths, 40-ft.; 250 45-ft.; 500 50-ft.: Ensign Lumber Co., Jacksonville, Fla., $31,800; Eppinger & Russell Co., 165 Broadway, New York, $22,194; Robinson Lumber, Veneer & Box Co., New Orleans, La., $21,187; Southern Creosoting Co., Slidell, La., $21,498; Gulfport Creosoting Co., Gulfport, Miss., $22,759.

Fire-Engine and Hose-Wagon Automobiles, Etc.—Panama.—Bids will be received by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., until Oct. 30, for furnishing combination fire-engine and hose-wagon automobiles and galvanized-iron roofing. Blanks and general information relating to this circular No. 651, may be obtained at Washington or at the offces of the Assistant Purchasing Agents, 24 State St., New York; 614 Whitney-Central Bldg., New Orleans, La., and 1086 North Point St., San Francisco, Cal.; also at the U. S. Engineer Offices in Seattle, Los Angeles, Baltimore, Philadelphia, Pittsburgh, Boston, Buffalo, Cleveland, Cincinnati, Chicago, St. Louis, Detroit, Milwaukee, St. Paul, Chattanooga, Louisville, Mobile and Galveston; Commercial Club, Kansas City; Chamber of Commerce, Quincy, and Chamber of Commerce and Board of Trade, Tacoma.

Cable, Pipe, Etc.—Panama.—Bids will be received until 10.30 a. m., Oct. 16, by Maj. F. C. Boggs, Corps Engrs., U. S. A., Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for steel cable, w.-i. or steel pipe under Circular No. 652. Blanks and general information may be obtained at Washington or at the offices of the Assistant Purchasing Agents, 24 State St., New York; 614 Whitney-Central Bldg., New Orleans, La., and 1086 North Point St., San Francisco, Cal.; also at the U. S. Engineer Offices in Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa.; Pittsburgh, Pa.; Boston, Mass.; Buffalo, N. Y.; Cleveland, Ohio; Cincinnati, Ohio; Chicago, Ill.; St. Louis, Mo.; Detroit, Mich.; Milwaukee, Wis.; St. Paul, Minn.; Chattanooga, Tenn.; Louisville, Ky.; Mobile, Ala., and Galveston, Tex.; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.

LIST OF CONTRACTS PENDING

Plans and Specifications on File.

The following plans (P.) and Specifications (S.) are on file for reference only unless otherwise noted at the office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.		Noted in issue of
10-21	Roof covering, Norfolk, Va. (S.)	9-21
10-21	Waterfront impvts., Boston, Mass. (S.)	9-21
10-28	Impvts. to quarters, Vallejo, Cal (S.)	9-21
11- 1*	Head gates, Boise, Idaho (S)	9-28
11- 1*	Subway and stations, Toronto, Ont. (P. & S.)	10- 5
11- 4	Pavement, Newport, R. I. (S)	10-12
11-10	and 11 Building, Hawaii. (S.)	9-21
11-10	and 11, Storehouse, Hawaii. (S.)	9-21
11-11	Heating system, Arlington, Va. (S.)	10-12
11-11	Quarters, Vallejo, Cal. (S.)	10-12

Light, Heat and Power Plants.

Bids close.		Noted in issue of
10-20	Alterations to heat'g plant, Jamesburg, N. J.	10-12
10-20	Heating and ventilating system, Indianapolis, Ind.	10-19
10-21	Lighting fixtures, Washington, D. C.	10- 5
10-23	Electrical equipment, Los Angeles, Cal.	9-21
10-23	Electric fixtures and wiring, New York, N. Y.	10-12
10-24	Power pump, Monticello, Wis.	10-12
10-24	Generator sets, etc., Washington, D. C.	10-12
10-24	Inverted lamps and posts, Boston, Mass.	9-21
10-24	Fixtures and wiring, Cortland, N. Y.	10-19
10-24	Heating and ventilating Plant, Madison, Wis.	10-19
10-25*	Conduit system, Binghamton, N. Y.	10-19
10-25*	Engine and generator, etc., London, Ky.	10- 5
10-25	Wire, Fort Leavenworth, Kan.	10- 5
10-25	Engine and generator, New York, N. Y.	10-19
10-25	Rewiring, Rochester, N. Y.	10-19
10-27	Addition to power-house, Wooster, Ohio	10-19
11- 1	Railway cars, San Francisco, Cal.	10- 5
11- 4	Street lighting, Champaign, Ill.	10-19
11-11	Hot-water heating system, Arlington, Va.	10-12
11-24*	Equipment for power station, Lethbridge, Alta.	10- 5
12- 7	Power machinery, New Orleans, La.	10-12

Bridges.

10-21	Bridge, Blowout, Idaho	10-12
10-21	Bridge, Vicksburg, Miss.	10- 5
10-21	Bridge, Butler, Pa.	10-19
10-21	Bridge work, Fort Wayne, Ind.	10-19
10-23	Bridge, Hillsboro, Ill.	10-19
10-24	Bridge, Toledo, Ohio	10- 5
10-27	Bridge work, Cincinnati, O.	10-12
10-27*	Bridge, Kansas City, Mo.	10-19
10-27*	Bridge, Saginaw, Mich.	10-19
10-28	Bridge, Surry, Va.	10-19
10-28	Bridge work, Cleveland, Ohio,	10- 5
10-30	Bridge work, Morton, Minn.	10-12
10-31	Bridges, Wise, Va.	10-19
11- 1	Bridge work, Cleveland, Ohio,	10- 5
11- 1*	Bridges, Angleton, Tex.	10-19
11- 2	Bridge approaches, Columbus, Ohio	10-12
11-20	Bridges, Houston, Tex.	10- 5
12- 1*	Superstructure, Portland, Ore.	10-19
10-23*	Stables, Ft. Huachuca, Ariz.	10-12
10-2[illegible]	Bldgs., Minneapolis, Minn.	10-12

Buildings.

Bids close.		Noted in issue of
10-24	School, Rock Hill, S. C.	10- 5
10-24	U. S. post office, Lexington, Va.	9-28
10-24	Bldgs, New York	10-12
10-25	Armory bldg., Bucyrus, O.	10-12
10-25	Buildings, Valatie, N. Y.	10-12
10-25	Bldgs., Kings Park, N. Y.	10-12
10-31*	U. S. post-office, Florence, Ala.	9-21
10-31*	U. S. post-office, Minneapolis, Minn.	9-14
10-31	School buildings, Pasadena, Cal.	10- 5
11- 1	Building, Raleigh, N. C.	10- 5
11- 1	Plans and specifications, library, Muskogee, Okla.	9-28
11- 1	School bldg., Placentia, Cal.	10-19
11-11	Quarters, Vallejo, Cal.	10-12
11-16	Building, Wash., D. C.	10-12
11-20	U. S. post-office, Dayton, O.	10-19
11-22	U. S. post-office, Jersey City, N. J.	10-19
12- 5	Infirmary, Rockville, Ind.	10-19

Water-Works.

10-19	Water pipes, Chicago, Ill.	10-19
10-20	Water pipe, Boston, Mass.	10-19
10-20	Water system, Marked Tree, Ark.	10-19
10-20*	Canal, San Antonio, Tex.	10- 5
10-20	Water tower, Grand Rapids, Minn.	10-12
10-23	Well, Leigh, Neb.	10-12
10-23	Watermains, Washburn, N. Dak.	10-12
10-23	Water tanks, Norfolk, W. Va.	10-19
10-23	Reservoir, etc., Aspinwall, Pa.	10-12
10-23	Reservoir, Indianola, Iowa	10-19
10-24	Pumps, Cleveland, Ohio	10-19
10-24*	Water-works South Wayne, Wis.	10-19
10-24	Watermain, Detroit, Mich.	10-19
10-25	Meters, Vancouver, Wash.	10-12
10-25	Well, Wapato, Wash.	10-12
10-25*	Water-tube boilers, Kings Park, N. Y.	10-19
10-25	Water-works, Hiawatha, Kan.	10-19
10-27	Gate-valves, Victoria, B. C.	10-19
10-30*	Canal, San Antonio, Tex.	10-19
10-31*	Conduit, New York	10-19
10-31	Watermain, Columbia, S. C.	10-19
10-31	Water tunnel, Cleveland, O.	10-19
10-31	Flume work, Wisdom, Mont.	9-28
10-31	Water-main, Cleveland Hgts., Ohio	9-28
10-31*	Water works, New York	10-12
11- 1*	Head gates, Boise Falls, Idaho	9-28
11- 1	Water-works, Jellico, Tenn.	10-12
11- 1	C.-i. pipe, St. Charles, Ill.	10-12
11-15	Water-works, Loreauville, La.	10-19
11-15*	Water supply, Cumberland, Md.	10-19
11-15*	Water-mains, Pensacola, Fla.	10-19

Sewers.

10-19	Sewers, Bloomington, Ill.	10-19
10-19	Sewers, Newark, N. J.	10-19
10-20	Sewer, Boston, Mass.	10-19
10-20*	Sewers, Louisville, Ky.	10-19
10-20	Sewer system, Marked Tree, Ark.	10-19
10-20	Sewers, Payette, Idaho	9-21
10-20*	Sewers, Louisville, Ky.	10-12
10-23	Sewers, Omaha, Neb.	10-19
10-24	Outfall sewer, New Bedford, Mass.	10-19
10-24*	Sewer system, Hammond, Ill.	10-24
10-25*	Sewers, Baltimore, Md.	10- 5
10-25	Sewers, New York, N. Y.	10-19
10-30	Sewers, Summerville, Ga.	9-21
11- 1	Sewers, Jellico, Tenn.	10-12
11- 1	Sewers, Huntington, W. Va.	10-12
11- 2*	Sewer system, Ligonier, Pa.	10-19
10-19	Sidewalks, Chicago, Ill.	10-19
10-20	Paving, etc., Salt Lake City, Utah	10-12
10-20*	Paving, Jacksonville, Fla.	10-12

Streets and Roads.

Bids close.		Noted in issue of
10-21	Grading, Racine, Wis.	10-12
10-21	Gravel road, Williamsport, Ind.	9-14
10-21	Paving, Piedmont, W. Va.	10-19
10-21	Road construction, Grafton, W. Va.	10-19
10-21	Paving, etc, Swissvale, Pa.	10-19
10-23	Paving, Boston, Mass.	10-19
10-23	Grading, Santa Barbara, Cal.	10-19
10-23	Paving, etc., Bakersfield, Cal.	10-19
10-23	Paving, etc., Venice, Cal.	10-19
10-23	Paving, Wilkinsburg, Pa.	10-19
10-23	Sidewalk repair, New York	10-12
10-24	Paving, Little Rock, Ark.	10-12
10-24	Paving, etc., Cadiz, Ohio	10-19
10-24*	Paving, Rockford, Ill.	10-19
10-25	Grading, Camp Hill, Pa.	10-19
10-25	Paving, Buffalo, N. Y.	10-19
10-25	Grading, etc., New York	10-19
10-25	Grading, etc., Cleveland, Ohio	10- 5
10-26	Road construction, Harrisburg, Pa.	10-12
10-26	Grading, New Rochelle, N.Y.	10-12
10-26	Walks, New York, N. Y.	10-19
10-27	Road improvement, Cincinnati, Ohio	10- 5
10-30	Grading, etc., Moulton, Ala.	10- 5
10-30	Crushed stone, Hartford, Conn.	10-12
10-30	Sidewalks, Gadsden, Ala.	10-12
10-30	Graveling, London, Ohio	10-19
11- 1	Paving, etc., Pine Bluff, Ark.	10-19
11- 1	Paving, Huntington, W. Va.	10-12
11- 3	Road improvement, Cincinnati, Ohio	10-12
11- 3*	Paving, Collingswood, N. J.	10-19
11- 3	Gravel road, Indianapolis, Ind.	10-19
11- 4	Macadam roads, Greencastle, Ind.	10-19
11- 4	Paving, Newport, R. I.	10-12
11- 6	Stone road, Jasper, Ind.	10- 5
11- 6	Road impve., Brandon, Miss.	10-19
11- 6	Gravel roads, Brownstown, Ind.	10-19
11- 6	Macadam road, Decatur, Ind.	10-19
11- 6	Roads, English, Ind.	10-19
11- 6	Stone road, Fowler, Ind.	10-19
11- 6	Stone road, Huntington, Ind.	10-19
11- 6	Stone roads, Rensselaer, Ind.	10-19
11- 6	Gravel road, Rising Sun, Ind.	10-19
11- 6	Gravel roads, Tyston, Ind.	10-19
11- 7	Highways, Lawrenceburg, Ind.	10-19
11- 7	Macadam road, Logansport, Ind.	10-19
11- 7	Roads, Paoli, Ind.	10-19
11- 7	Road improvement, Cleveland Heights, Ohio	10-19
11- 7	Grading, etc., Camden, Ala.	10-19
11- 7	Curbs and sidewalks, Lake Charles, La.	10-12
11- 7*	Paving and curbing, Pensacola, Fla.	10-12
11- 7	Gravel road, Vincennes, Ind.	10-19
11- 8	Gravel roads, Lafayette, Ind.	10-19
11- 9	Roads, Peru, Ind.	10-19
11-13	Paving, Pittston, Pa.	10-19
11-14	Paving, etc., Pensacola, Fla.	10-19
11-15	Paving, Monmouth, Ill.	10-19
11-15	Grading, Cleveland, Ohio	10-12

Miscellaneous.

10-19	Cable, Spokane, Wash.	10-19
10-20	Wire, Boise, Idaho	10-19
10-20	Removing wreck, Jacksonville, Fla.	9-28
10-20*	Road-roller, Collingswood, N. J.	10-12
10-20	Fire appliances, New York	10-12
10-20	Rebuilding tugboat, N. Y.	10-12
10-21	Ditch, Wheaton, Minn.	10-12
10-21	Waterfront impvts., Boston, Mass.	9-21
10-21	Roof covering, Norfolk, Va.	9-21
10-23*	Metal furniture, Jersey City, N. J.	10-12
10-23	Mechanical equipment, Bellingham, Wash.	10- 5
10-23	Dredging, Wilmington, Del.	10- 5
10-23	Steel beams, New York	10-12
10-23	Fish hatchery, Detroit, Minn.	10-19

Bids close.		Noted in issue of
10-23*	Stables, Ft. Huachuca, Ariz.	10-12
10-24*	Barge canal, Albany, N. Y.	9-28
10-24	Bronze, copper, etc., Washington, D. C.	10-19
10-24	Fire appliances, New York	10-19
10-25*	Fire escapes, Utica, N. Y.	10-19
10-26	Lumber, New York	10-19
10-26	Sand, etc., New York	10-19
10-26	Road gravel, New York	10-19
10-26	Ditch, York, Neb.	10-19
10-27	Stable, Fort Riley, Kan.	10-19
10-27*	Dredging, Charleston, S. C. (See "Proposals")	9-28
10-27	Hydro-electric plant, Panama (U. S. Poss.)	10- 5
10-27*	Canal work, Charleston, S. C.	10- 5
10-28	Cement, Spain (Foreign)	10-19
10-30*	Jetty construction, Wilmington, Del.	10- 5
11- 1*	Subway, etc., Toronto, Ont.	10- 5
11- 2*	Dredging, Bridgeport, Conn.	10-19
11- 3*	Bricks, gravel, stone, Collingswood, N. J.	10-19
11- 6	Pipe, gate-valves, etc., Panama (U. S. Poss.)	10-19
11- 6	Fence, Los Angeles, Cal.	10-19
11- 8	Storehouse, Monterey, Cal.	10-19
11- 8*	Water tube boilers, Philippine Islands (U. S. Poss.)	
11- 9	Dredge, Portland, Ore.	10-19
11- 9	Fire-beat, Portland, Ore.	10-19
11-10	and 11, storehouse, Hawaii (U. S. Poss.)	9-21
11-10	and 11, Building, Hawaii (U. S. Poss.)	9-21
11-11	Storehouse, Hawaii (U. S. Poss.)	9-21
11-11	Levees, Texarkana, Tex.	10-19
11-13*	Dredging, New York	10-19
11-14	Castings, cylinders, etc., Panama (U. S. Poss.)	9-28
11-15	Transfer station, New York	10-19
11-19	Elec. lighting, Roumania (Foreign)	9-21
11-20	Electric towing locomotives, Panama (U. S. Poss.)	
10-30	Trap rock, Hartford, Conn.	9-28
11- 4	Jetty construction, Wilmington, Del.	10-12
11- 6*	Jetty construction, Wilmington, Del.	10-12
11- 6*	Harbor work, New York	10-12
11- 6*	Breakwater work, Burlington, Vt.	10-12
11-11*	Earth levee, East St. Louis, Ill.	10-12
11-20	Drainage canal, Caruthersville, Mo.	10-19
11-22	Power plant, South Africa (Foreign)	10-19
11-22	Cable, Australia (Foreign)	10-19
11-29	Copper wire, etc., Australia (Foreign)	10-19
12- 1*	Pumping machinery, India, (Foreign)	9-21
12- 1	Drainage, Osceola, Ark.	10- 5
12- 4*	Condensers, pumps, etc., Philippine Islands (U. S. Poss.)	10- 5
12- 4	*Engines, generators, etc., Philippine Islands (U. S. Poss.)	9-28
——	Excavation, Shelburne Falls, Mass.	9-23
12- 5	Buildings, Porto Rico (U. S. Poss.)	10-19
12-27*	Dredges, San Francisco, Cal.	10- 5

Examinations.

Examination date.		Noted in issue of
1 -10	Surveyors, Washington, D. C.	10-19
10-25	Assistant Chemist, Washington, D. C.	10- 5
10-25	Laboratory Assistant in Chemistry, Washington, D. C.	10- 5
10-25	Junior Chemist, Washington.	10- 5
10-25	Laboratory Assistant in Engineering, Washington, D. C.	10- 5
10-25	Laboratory Assistant in Physics, Washington, D. C.	9-28
10-26	Expert on System and Organization and Examiner of Efficiency, Chicago, Ill.	10-19
11- 3	Statistician, Albany, N. Y.	10-19
11- 4	Foremen of Steelwork Construction, Washington, D. C.	10-19
11-22	Electrical Assistant, Washing, D. C.	10-19

FOREIGN CONTRACTS.

(To insure prompt attention, letters on consular business should be addressed to The American Consul at ——, ——. Such letters are opened and attended to by whoever may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office, the matter may wholly escape attention.)

Cement.—Spain.—Bids will be received until Oct. 28 by the Junta de Zaragoza, calle de Don Jaime, No. 61, Saragossa, for 2,800 tons of Portland cement for the reservoir works at La Pena.

Electric Railway. — Portugal. — The Companhia Carris de Ferro do Porto has applied to the Department of Posts and Telegraphs for a concession for the construction of an electric railway.

Power Plants.—South Africa.—Bids will be received until noon, Nov. 22, by the Chairman of the Tender Board, Union Dept. Posts and Telegraphs, Box 376, Pretoria, for an electric power plant, including motor generators, accumulators, main switchboard, cable, etc.

Copper Wire, Etc.—Australia.—Bids will be received until noon, Nov. 29, by the Deputy Postmaster-General, Adelaide, for supplying 3,500 copper binders, 1,500 jointing sleeves, 3,500 copper tapes, and eleven tons of hard-drawn copper wire under Schedule 197.

Cable.—Australia.—Bids will be received until Nov. 22 by the Deputy Postmaster-General, Brisbane, for paper-insulated, lead-covered cable, submarine telegraph cable, silk and cotton insulated switchboard cable under Schedule 191.

CONTRACT PRICES.

***Viaduct.** — Fitchburg, Mass. — Bids for constructing the Fifth St. Viaduct were received on Sept. 25, as follows: (A) McHARG-BARTON CO., 165 Broadway, New York (awarded contract on Nov. 4) (B) H. P. Converse & Co., 88 Broad St., Boston (C) Little & Seretto, Leominster, Mass. The item bids were as follows:

VIADUCT, FITCHBURG, MASS.

	A	B	C
2,500 cu. yds. earth excavation	$1.25	$1.73	$1.00
85 cu. yds. rock excavation	1.00	3.42	10.00
520 cu. yds. earth fill in approaches	.75	.60	.50
190 cu. yds. cinder fill under sidewalk	.50	.69	1.00
470 cu. yds. gravel fill on roadway reinforcement	1.00	1.14	2.00
87.5 tons steel bars for concrete in place	50.00	60.40	80.00
2,925 tons structural steel, erected	90.00	107.00	119.00
1,176 cu. yds. concrete, 1:3:5, Class A	4.00	5.08	6.00
99 cu. yds. concrete, 1:3:5, Class B	9.00	10.16	6.00
988 cu. yds. concrete, 2:5:9, Class C	12.00	8.00	10.00
315 cu. yds. concrete, 2:5:9, Class D	12.00	23.75	16.50
1,566 cu. yds. concrete, 4:9:16, Class E	12.00	12.68	17.00
88 cu. yds. concrete, 4:9:16, Class F	12.00	8.83	6.50
1,378 lin. ft. hand rails, surfaces erected	2.25	2.08	2.00
1,500 sq. ft. scrubbing concrete	.30	.08	.03
15,000 sq. ft. painting concrete surfaces	.06	.04	.01
2 storm water inlets	50.00	28.00	100.00
1,378 duct ft. electric conduits	.25	2.38	.30
8 lamp posts, single	50.00	114.00	85.00
6 lamp posts, cluster	90.00	173.00	100.00
Electric wiring, lump sum	750.00	1,000.00	550.00
Totals	$82,528	$95,048	$101,863

Lock.—Louisville, Ky.—Bids were received by Maj. Lytle Brown, Corps Engrs., U. S. A., Oct. 14, for constructing Lock No. 41, Ohio River, at Louisville, from (A) Mansfield Engineering Co., Indianapolis, Ind.; (B) Edward M. Graves, Cleveland, Ohio; (C) Henry Bickel Co., Louisville; (D) Robert Grace Contracting Co., Cleveland, Ohio; (E) The T. A. Gillespie Co., Pittsburgh, Pa.; (F) Ohio River Contracting Co., Evansville, Ind. The itemized bids were as follows:

LOCK 41, OHIO RIVER.

	A	B	C	D	E	F
300 lin. ft. cofferdam, 24 ft. high	$45.00	$25.00	$25.00	$10.00	$35.00	$12.50
200 lin. ft. cofferdam, 69 ft. high	110.00	25.00	50.00	60.00	40.00	40.00
876,000 cu. yds. common excavations	.41	.40	.38	.26	.45	.35
293,000 cu. yds. rock excavations	.88	.90	.96	.95	.45	.90
4,280 lin. ft. drilling bolt holes	.41	.50	.30	.20	1.00	.50
250,000 cu. yds. fill	.27	.04	.15	.07	.15	.15
101,300 sq. ft. channeling	.15	.35	.25	.20	.40	.15
75 cu. yds. riprap	4.00	2.00	2.00	4.00	3.00	1.00
535 cu. yds. stone paving	5.00	1.50	2.00	5.00	6.50	4.00
660 lin. ft. concrete piles	4.00	1.00	2.50	2.50	3.00	3.00
11,500 M ft. B.M. oak timber	80.00	100.00	80.00	75.00	100.00	80.00
65,565 cu. yds. concrete	6.10	6.30	5.00	6.40	5.90	5.00
1,231 cu. yds. concrete paving	6.00	15.00	7.00	8.00	6.50	7.00
303,500 lbs. structural steel	.07	.06	.07	.04	.06	.05
150 lbs. reinforcing steel	.07	.10	.04	.04	.04	.05
33,200 lbs. forgings (including wrought iron)	.07	.15	.07	.07	.055	.05
11,000 lbs. bolts, etc.	.07	.10	.07	.07	.04	.05
45,800 lbs. iron castings	.07	.10	.07	.10	.065	.05
213,400 lbs. steel castings	.09	.15	.10	.11	.09	.075
60 lbs. bronze	1.00	2.00	1.00	.75	1.00	1.00
19 lin. ft. pipe, 7-in	6.00	1.18	2.50	2.00	3.00	1.50
255 lin. ft. pipe, 6-in	4.00	.94	2.15	1.50	2.50	1.50
780 lin. ft. pipe, 5-in	2.50	.72	1.50	1.20	1.20	1.50
1,090 lin. ft. pipe, 4-in	1.90	.54	1.05	.90	1.00	.75
8,210 lin. ft. pipe, 3-in	1.80	.37	.65	.70	.60	.75
2,000 lin. ft. pipe, 2-in	1.40	.18	.40	.35	.40	.75
170 lin. ft. tile drain	1.00	1.00	.50	.30	.40	.75
4 small power-houses, each	1,500.00	1,000.00	500.00	200.00	300.00	1,000.00
10,800 sq. yds. macadam roadway	1.00	2.00	.30	1.40	.75	.75
Totals	$1,237,341	$1,200,077	$1,099,324	$1,063,152	$1,089,057	$1,036,473

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

Cory, Harrison & Bryant, 208 Gibbs Bldg., San Antonio, Tex., have recently opened an office to carry on a general engineering and contracting business. They would like to receive catalogs, price lists and quotations, particularly relating to reinforced concrete, irrigation and water supply.

EXAMINATIONS.

Statistician.—Albany, N. Y.—The The Public Service Commission announces an examination for the position of Statistician at a salary of $1,801 to $2,400 a year, application for which will be received until Nov. 3. The position requires graduate training in economics and statistics (including corporate finance and accounting) or equivalent, and practical experience in statistical work. Preference will be given to applicants showing knowledge of or experience with statistics of public service corporations. Candidates will be rated on their training, professional and personal records and submitted papers, including published writings.

Electrical Assistant. — Washington, D. C.—The U. S. Civil Service Commission announces an examination on Nov. 22, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of Electrical Assistant in the Signal Service at Large, War Department, and vacancies requiring similar qualifications as they may occur in any branch of the service, unless it shall be decided in the interest of the service to fill such vacancies by reinstatement, transfer, or promotion. The salary of Electrical Assistants in the Signal Service at Large is $1,080 a year. The examination will consist of the subjects mentioned below, weighted as indicated: Practical questions in electrical science, 20 points; Practical questions in construction and installation of electrical instruments, 30 points; Training, experience, and fitness, 50 points. Applicants must have reached their 20th birthday. Examination form 1312.

Expert on System and Organization and Examiner of Efficiency.—Chicago, Ill.—The Commission has ordered examinations for the positions of Expert on System and Organization, Division B (Engineering Service), Grade IV, $3,000, and Examiner of Efficiency (technical), Division B (Engineering Service), Grade III, $1,920-$2,400, which are to be held on Oct. 26 and Nov. 2 respectively. In order that technical men of the highest grade may be secured to fill these positions, local residence has been waived. Eligibles resulting from these examinations will be certified to vacancies existing in the technical section of the Efficiency Division of the Civil Service Commission. The duties of these positions require the highest kind of technical training and general engineering experience. Subjects and weights of examinations will be as follows: technical, 6; mathematics, 2; experience, 3; report, 1. For further particulars address R. A. Widdowson, Secy., Civil Service Commission, Chicago.

Foreman of Steelwork Construction. —Washington, D. C.—The U. S. Civil Service Commission announces an examination to be held Nov. 4, to secure eligibles from which to make certification to fill a vacancy in the position of Foreman of Steelwork Construction at a salary ranging from $1,200 to $2,000 a year, in the United States Penitentiary at Leavenworth, Kans., and vacancies requiring similar qualifications as they may occur; unless it shall be decided in the interest of the service to fill such vacancy by reinstatement, transfer, or promotion. There will be no educational examination for this position, but they will be rated according to their training, experience, and fitness as shown in application and examination Form 1800, and by corroborative evidence. All statements relating to training, experience, and fitness are subject to verification. Not less than seven years' experience in the fabrication, or design, and erection of structural steelwork is requisite, of which not less than two years must have been spent in erection or supervision of erection. Applicants must have reached their 20th birthday.

Surveyor.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Jan. 10-11, 1912, to secure eligibles from which to make certification to fill vacancies as they may occur in the position of U. S. Surveyor in the General Land Office, and otherwise as they may occur in any branch of the service requiring similar qualifications. The entrance salary is $100 per month, and per diem in lieu of subsistence to chief of parties. Reimbursement for actual cost of subsistence is allowed to those not entitled to per diem in lieu of subsistence. The examination will consist of the subjects mentioned below, weighted as indicated: mathematics, 15 points; theory and practice of place, topographic, and elementary geodetic surveying, 20 points; public land surveying, 30 points; adjustment and use of instruments, 10 points; training, experience, and fitness, 25 points. Applicants who have not had sufficient training and experience to entitle them to a rating of at least 70% in that subject will not be admitted to the examination. In order to obtain a rating of 70% or over in training and experience, applicants must have had not less than one season in the field in charge of party, or two seasons in some subordinate field position in the surveying of public lands. Higher ratings will be given for more extended experience. Minimum age, 20 years. Examination form 1312.

INDUSTRIAL NOTES.

The Holden Co., Ltd., of Montreal, Que., has been appointed general sales agent in Canada for the Chicago Pneumatic Tool Co.

Mr. Arthur D. Little, chemist and engineer of Boston, Mass., has been elected Director in the Standard Alcohol Co., New York, a concern organized to manufacture ethyl alcohol from waste wood.

Mr. C. R. Young, Lecturer in Structural Engineering in the University of Toronto, and late of Barber & Young, Structural Engineers, has opened an office as a consulting structural engineer at 318 Continental Life Bldg., Toronto.

Louis E. Welsh has been appointed District Manager for New Jersey, Pennsylvania, Delaware, Maryland and the District of Columbia by the MacArthur Concrete Pile & Foundation Co., 11 Pine St., New York, with his office at the Perry Bldg., Philadelphia.

The Independent Pneumatic Tool Co., Thor Bldg., Chicago, Ill., manufacturers of Thor air tools, have opened a branch office at 1502-3 Candler Bldg., Atlanta, Ga., so as to be better prepared to take care of their increased business in the South. Mr. J. J. Keefe, who has been connected with the company several years as southern travelling representative, has been appointed manager of the Atlanta office. A complete line of Thor air tools and parts will be carried in stock for the convenience of customers.

The Corrugated Bar Co. has announced the removal of its headquarters from St. Louis, Mo., to Buffalo, N. Y., to occur on the [illegible] of this month. They will occupy the third and fourth floors of the Mutual Life Bdg., in Buffalo. The change in headquarters has been decided upon as their stock warehouse and fabricating plants are located near Buffalo. The move will enable them to give their customers better and more prompt service in the handling of orders. District Offices will be maintained in the National Bank of Commerce Bldg., at St. Louis, as well as in New York and Chicago.

The Oeking Co., of New York, has been incorporated to sell the punching and shearing machines manufactured by the Stahlwerk Oeking, of Dusseldorf, and has opened offices at 50 Church St., New York. A large stock of machines will be shortly on hand for prompt deliveries in Jersey City, where spacious warehouse facilities have been provided. The management of the Oeking Co. is in the hands of the Wiener Machinery Co., which has made a specialty of importing similar machines. The German Oeking works employ about 1,000 men and are the only manufacturers who do not depend for their steel upon outside steel foundries. The Oeking steel works has a capacity of about 15,000 tons annually of steel castings for their machinery department. All standard sizes are manufactured in series and it is the aim of the Oeking people to deliver any machine at once from stock. The Oeking Co. will issue a very interesting illustrated catalog very shortly which will give a detailed description of its works, machines and accessories made.

The New York Electric Tool Co., manufacturers of Carver electric tools, has removed its main office and factory from its former location at 136 Liberty St., New York, to West Newton, Mass. Allen F. Carver, the designer of the company's line of electric tools, will continue his relations with the company. Mr. Carver has had long experience both with this and other electric tool companies in designing and perfecting electric tools, and is an expert in this line. The business and financial management of the company has been assumed by new interests, George P. Bullard, Pres. Eastern Expanded Metal Co. and of the U. S. Electric Signal Co., having become this company's President, and Roland F. Gammons, 2d, Treas. West Newton Savings Bank and of the U. S. Electric Signal Co., having become this company's Treasurer. The New York Electric Tool Co. will hereafter be managed in an energetic and progressive manner, its manufacturing facilities will be of the most modern and up to date character; and its financial resources of sufficient strength to guarantee the fulfilment of its contracts and to provide for the advancement of the company's business along progressive lines. The company proposes to at once complete its line of tools and from time to time, to add such new tools and devices to its line as conditions and demands of the trade may warrant. The new management of the company desires to express the wish that all its present customers may feel free to call upon it for any advice or assistance in connection with the electric tools which they have purchased, or for additional tool equipment.

Additional

Proposal

Advertisements

are on page 49 of the regular advertising pages—not part of the paper.